

February 19, 1997

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: MANUAL CHAPTER 0350 RESTART PANEL  
CRYSTAL RIVER - DOCKET NO. 50-302

Dear Mr. Beard:

This refers to the meeting held February 12, 1997, in your Nuclear Administration Building Conference Room. Enclosed is a list of attendees, the meeting agenda, your System Readiness Review Plan briefing slides, your System Readiness Review Plan, Revision 0, and a copy of your Restart Issues Matrix, Revision 3.

At our next meeting, which we shall schedule separately, we request that you brief us on the status of items on your Restart Issues Matrix, with particular attention to any decisions which you may have reached concerning how you plan to resolve specific restart issues.

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

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

Sincerely,

Original signed by Johns P. Jaudon

Johns P. Jaudon, Director  
Division of Reactor Safety

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

Enclosures: 1. List of Attendees  
2. FPC Meeting Agenda  
3. FPC System Readiness Review Plan with Slides  
4. FPC System Readiness Review Plan  
5. FPC Restart Issues Matrix

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B. J. Hickie, Director  
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D. Kusemiller, Director (SA2A)  
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110 N. Apopka Avenue  
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cc w/encs: Continued see page 3

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Robert B. Borsum  
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FPC

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Distribution w/encl:

L. Raghavan, NRR

B. Crowley, RII

PUBLIC

NRC Resident Inspector

U.S. Nuclear Regulatory Commission

6745 N. Tallahassee Road

Crystal River, FL 34428

OFFICE						
SIGNATURE	<i>f. mellen</i>	<i>K. L. Raghavan</i>				
NAME	L. Mellen	K. L. Raghavan				
DATE	02 / 19 / 97	02 / 19 / 97	02 / / 97	02 / / 97	02 / / 97	02 / / 97
COPY?	(YES) NO	(YES) NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY

DOCUMENT NAME: G:\crystal\meeting\CRSUMFeb.97

## LIST OF ATTENDEES

### Florida Power Corporation

R. Anderson, Senior Vice President  
J. Baumstark, Director Quality Programs  
P. Beard, Senior Vice President, Nuclear Operations  
R. Bright, Site Support  
J. Cowan, Site Vice President  
D. Daniels, Manager NSAT  
F. Frando, Licensing  
A. Glenn, Corporate Counsel  
B. Gutherman, Manager, Nuclear Licensing  
G. Halnon, Assistant Director, Nuclear Operations Site Support  
M. Hendrix, Corporate Relations  
B. Hickie, Director Nuclear Plant Operations  
J. Holden, Engineering Director  
H. Koon, Restart Manager  
D. Kunsemiller, Director Nuclear Site Support  
R. Maughan, Corporate Relations  
N. Marrone, Consultant  
D. Miskiewicz, Senior Nuclear Safety Analysis Engineer  
B. Rossfeld, Manager Site Nuclear Services  
E. Smith, Licensing Technician  
D. Stevens, Senior Quality Assurance Specialist  
F. Sullivan, Manager NOE  
J. Terry, Manager, Nuclear Plant Technical Support  
R. Widell, Director, Nuclear Operations Training  
R. Yost, Manager Nuclear Quality Assurance  
A. Zarechnak, Systems Readiness Review Coordinator

### Nuclear Regulatory Commission

S. Cahill, Senior Resident Inspector, Crystal River  
T. Cooper, Resident Inspector, Crystal River  
R. Hannah, Public Affairs  
F. Hebdon, Director, Directorate II-3, NRR  
J. Jaudon, Director, Division of Reactor Safety, Region II  
L. Raghavan, Project Manager, Project Directorate II-1, NRR  
R. Schin, Reactor Inspector, Region II

Members of the News Media  
Members of the Public

Enclosure 1



## **FPC / NRC Restart Panel Meeting**

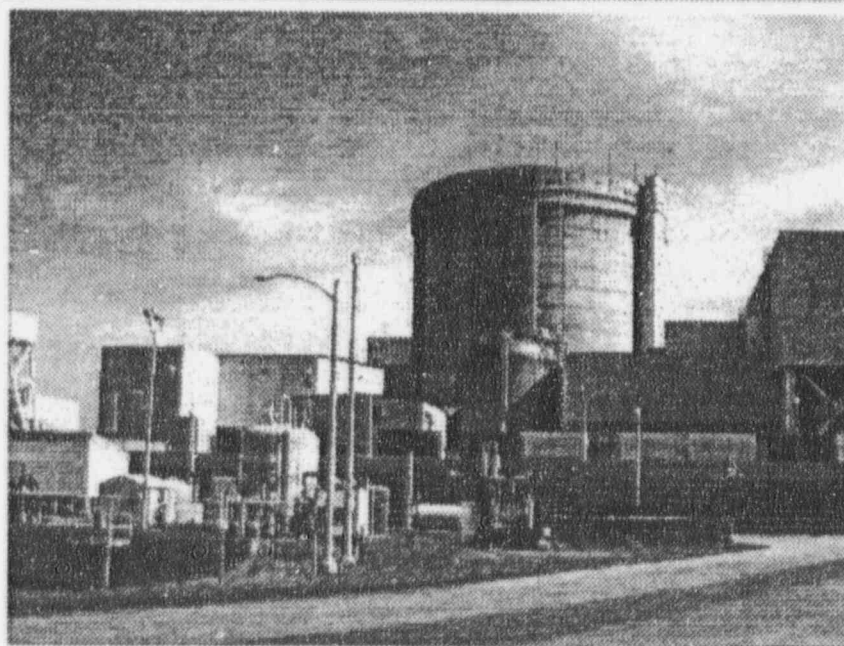
### **Agenda**

**February 12, 1997**

- **System Readiness** Jim Terry
  
- **Milestone Schedule** Hoyt Koon
  
- **Corrective Action Program** Dave Daniels  
Bruce Hickie

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# *System Readiness Review Plan*



**Crystal River Unit 3**

# SYSTEM READINESS REVIEW

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- Project Mission Statement
  - » Provide Reasonable Assurance System Operation is:
    - Capable of Meeting Functional Requirements
    - Within Design Basis
    - Within Licensing Basis



# SYSTEM READINESS REVIEW

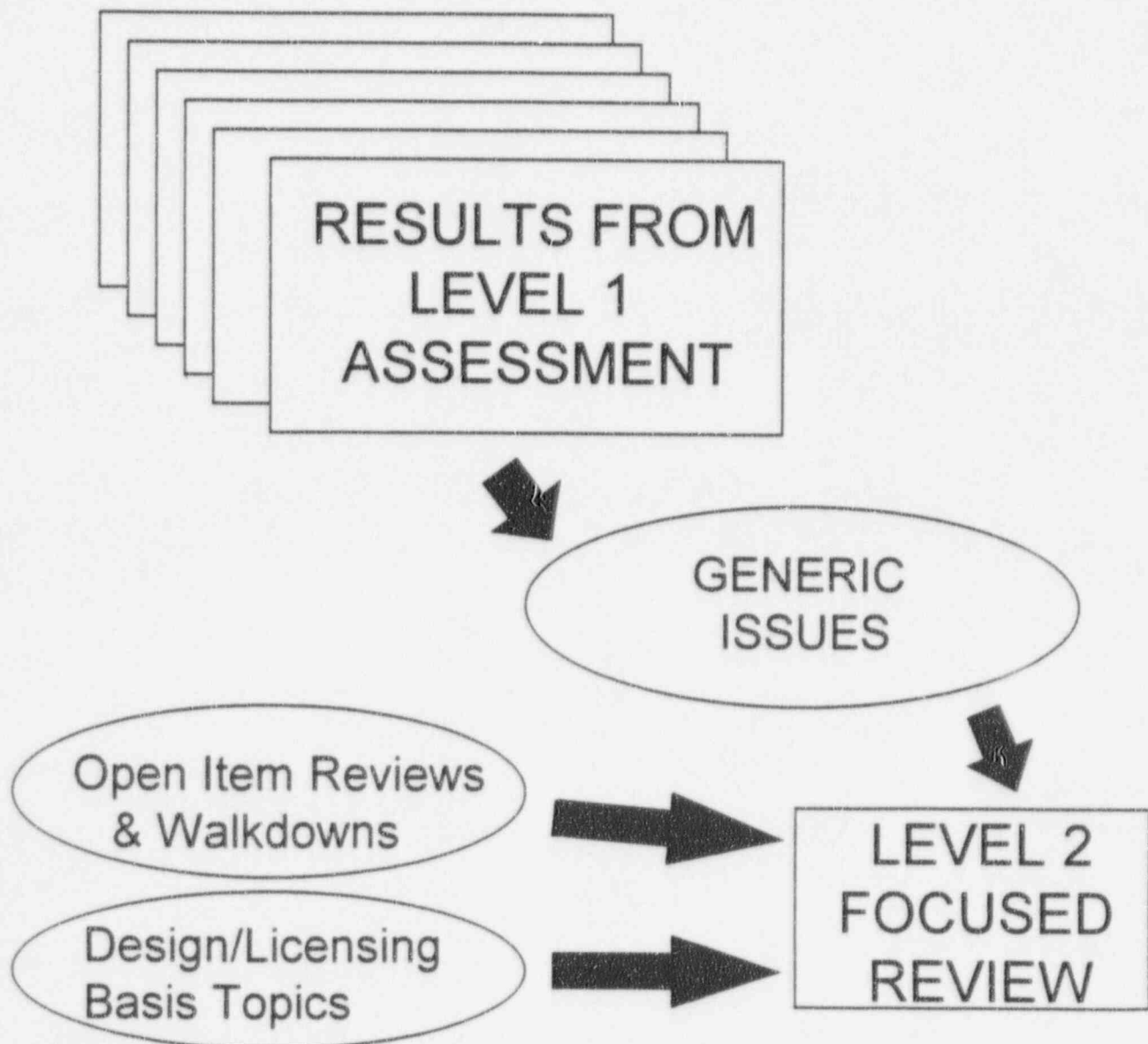
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## ● Implementation Process

- » Select Systems for Appropriate Levels of Reviews (Level 1,2 or 3)
- » Perform Review
- » Identify Specific Issues
- » Review of Results to Identify Generic Issues
- » Disposition Items
- » Report of System Readiness
- » Turnover to Operations

# LEVEL 2 FOCUSED REVIEW

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# SYSTEM READINESS REVIEW

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- System Selection Process

- » Multiple Fission Product  
Barrier Approach

- » Analytical Process

- » Engineering Judgement and  
Assessment Performance

# SELECTION RESULTS

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- System Readiness Certification (Level 1)
  - » Emergency Diesel Generators & EDG Support Systems
  - » Engineered Safeguards System
  - » Reactor Coolant System
  - » Make up & Purification System
  - » Decay Heat Removal System
  - » Emergency Feedwater System
  - » Emergency Feedwater Initiation & Control System
  - » Core Flood System

# SELECTION RESULTS

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- System Readiness Assessment (Level 2)
  - » AC Elec. Distribution
  - » DC Elec. Distribution
  - » Air Handling (subsystems)
  - » Nuclear Services Closed Cycle Cooling (SW)
  - » Raw Water
  - » Decay Heat Closed Cycle Cooling (DC)
  - » Rod Drive System
  - » Main Steam
  - » Waste Disposal
  - » Radiation Monitoring
  - » Annunciator System
  - » Building Spray
  - » Feedwater
  - » Chemical Addition
  - » Spent Fuel
  - » Nuclear Instrumentation
  - » Reactor Protection System
  - » Containment Access (RA)

# TEST OF REASONABLENESS

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- All Maintenance Rule Risk Significant Systems are Level 1 or Level 2
- Based on PSA, Risk Reduction Worth perspective, and excluding contribution to risk due to human error,
  - » Level 1 Systems are relied upon in accident sequences which account for 87% of the core damage frequency.
  - » Level 1 & 2 Systems are relied upon in accident sequences which account for 100% of the core damage frequency.

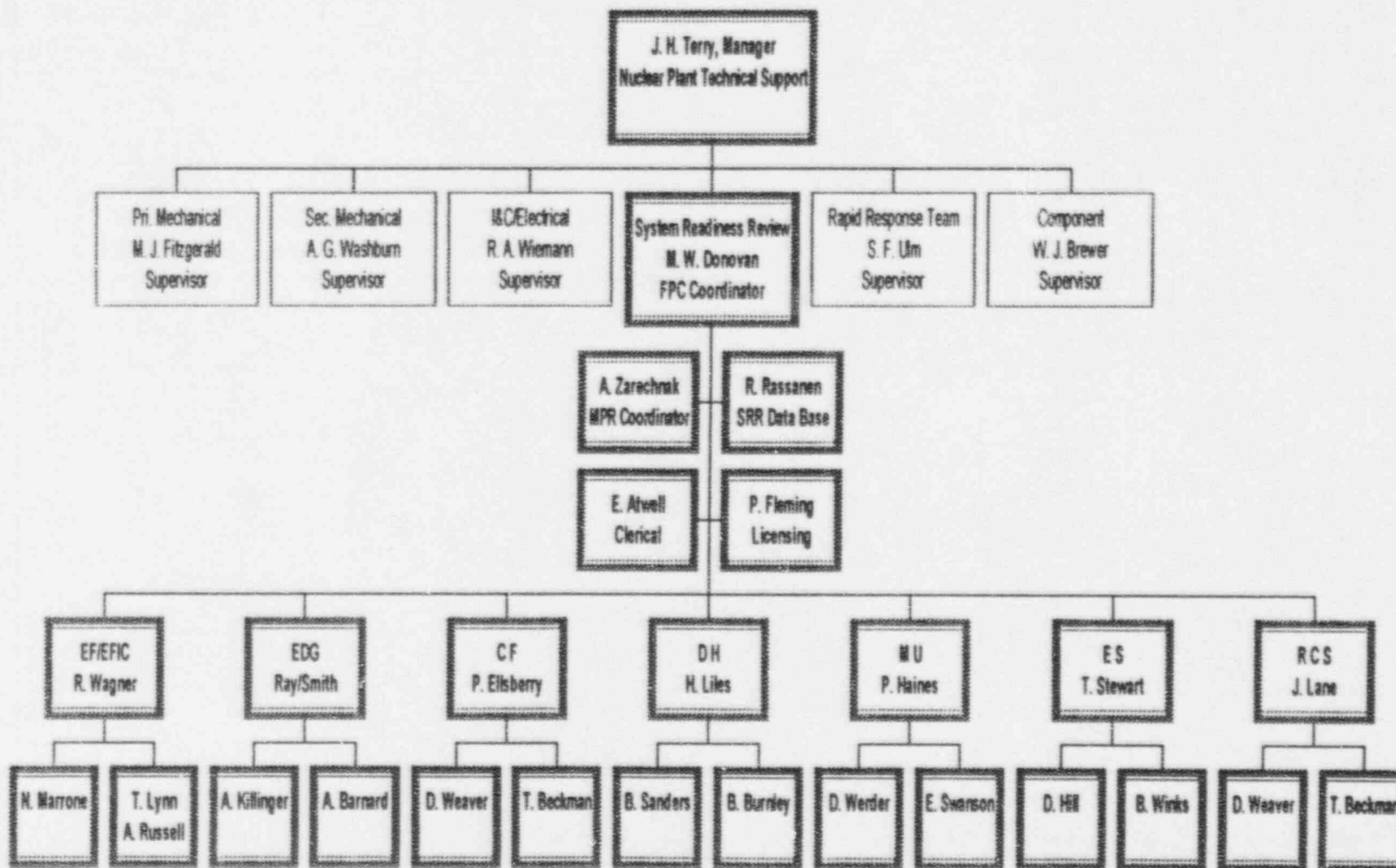
# CURRENT STATUS

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- Teams are formed
- Training for Contractor support and FPC support complete.
- Mobilized in trailer on site.
- System Readiness Review Plan Approved.
- Backfill of System Engineering resources ongoing.
  - » 4 Engineers from DESI on site.
  - » 2 additional in mobilization process.



# Nuclear Plant Technical Support/System Readiness Review





# TIMELINE EFFORT BENEFITS

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- Recurring Events at a Component Level
- Periods of High Activity at a System Level
- Previous Activities Effect on Current Design/Licensing Basis
- Database of Activities
- Hard Copy of Documents