April 2, 1999

Duke Energy Corporation ATTN: Mr. W. R. McCollum Vice President Oconee Nuclear Station P. O. Box 1439 Seneca, SC 29679

SUBJECT: MEETING SUMMARY - OCONEE NUCLEAR STATION (ONS)

Dear Mr. McCollum:

This refers to the meeting conducted by mutual request at the Oconee Nuclear Station on March 24, 1999, to discuss the activities of the NRC management oversight group (MOG), and for you to provide an update to the Oconee Recovery Plan and related plant performance. Enclosures 1 through 3 are a list of meeting attendees, your presentation handout, and an updated Oconee Recovery Plan Issues Checklist, respectively.

During the Oconee plant performance review (PPR) conducted on February 9, 1999, an assessment of Oconee performance by template area was performed. The MOG concluded that Operating Performance was acceptable; however, performance had declined from last period. This decline was reflective of several operator related events resulting from human performance shortcomings and mixed performance in operating programs and processes. Performance related to Operations During Transients remained good. Plant Material Condition generally improved. Human Performance remained consistent with the previous assessments. Despite improved performance in the Engineering Support sub-area, Engineering Design was again evaluated overall as poor. This was directly attributed to a number of major variances from requirements. Performance in the previously unrated area of Engineering Program and Processes was evaluated as adequate. Overall, Problem Identification/Resolution at Oconee improved from poor to adequate. Noteworthy was the improved good performance in Analysis and Resolution of problems. A decline in identification of problems was noted during this assessment. This was due to several missed opportunities in the Engineering area. The results of this assessment as well as the previous Oconee performance assessment by template areas are provided in Enclosure 4.

As a result of this assessment, the Regional Administrator directed termination of MOG activities. Focused inspections will be performed for items remaining from the MOG, which require further NRC review. Items from the Recovery Plan Issues Checklist that will be inspected in the near term were provided to you in the PPR letter dated April 1, 1999. Other items remaining from the Recovery Plan Issues Checklist will be reviewed by future PPRs for inclusion in upcoming inspections.

Remaining open items associated with MOG-sponsored inspection of the emergency feedwater system are presented as Enclosure 5. When your efforts to resolve the problem investigation process (PIP) reports associated with these issues are complete or sufficient progress has been made in your actions to allow inspection of these issues, please inform us.

Enclosure 6 provides a list of existing ONS violations for which specific inspection activities will be conducted. As discussed at the meeting, other existing violations will be closed without an

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item-by-item verification of your corrective actions. As you are aware, these items could be inspected during future corrective action program reviews. As discussed in the previous paragraph, when you feel that sufficient progress has been made to allow inspection of the violations listed in Enclosure 6, please inform us.

In accordance with Section 2.790(a) of the 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 meeting summary, please contact Mr. C. Ogle at (404) 562-4510.

Sincerely,

(Original signed by) Charles A. Casto Deputy Director Division of Reactor Projects

### Docket Nos. 50-269, 50-270, 50-287 License Nos. DPR-38, DPR-47, DPR-55

Enclosures:

- 1. List of Attendees
- 2. Licensee Presentation Handout
- 3. Oconee Recovery Plan Issues Checklist
- 4. Oconee Rollup 2/9/99
- 5. EFW System Open Items
- 6. Violations Requiring Inspection for Closeout

cc w/encls: J. E. Burchfield Compliance Duke Energy Corporation P. O. Box 1439 Seneca, SC 29679

Lisa F. Vaughn Legal Department (PB05E) Duke Energy Corporation 422 South Church Street Charlotte, NC 28242

Rick N. Edwards Framatome Technologies 1700 Rockville Pike, Suite 525 Rockville, MD 20852

cc w/encls cont'd: (See page 3)

### DEC

cc w/encls cont'd: J. Michael McGarry, III, Esq. Winston and Strawn 1400 L Street, NW Washington, D. C. 20005 3

Mel Fry, Director Division of Radiation Protection N. C. Department of Environmental Health & Natural Resources 3825 Barrett Drive Raleigh, NC 27609-7721

Virgil R. Autry, Director Div. of Radioactive Waste Mgmt. S. C. Department of Health and Environmental Control 2600 Bull Street Columbia, SC 29201

County Supervisor of Oconee County Walhalla, SC 29621

Manager, LIS NUS Corporation 2650 McCormick Drive Clearwater, FL 34619-1035

L. A. Keller, Manager Nuclear Regulatory Licensing Duke Energy Corporation 526 S. Church Street Charlotte, NC 28201-0006

Karen E. Long Assistant Attorney General N. C. Department of Justice P. O. Box 629 Raleigh, NC 27602

Steven P. Shaver Senior Sales Engineer Westinghouse Electric Company 5929 Carnegie Boulevard, Suite 500 Charlotte, NC 28209

Distribution w/encls: (See page 4)

### DEC

Distribution w/encls: L. Plisco, RII D. LaBarge, NRR R. Carroll, RII H. Berkow, NRR C. Casto, RII K. Landis, RII C. Ogle, RII NRC Resident Inspector PUBLIC

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### LIST OF ATTENDEES

#### Nuclear Regulatory Commission

L. Reyes, Regional Administrator, Region II (RII)

B. Mallett, Director, Division of Reactor Safety (DRS), RII

C. Casto, Deputy Director, Division of Reactor Projects (DRP), RII

C. Ogle, Chief, Branch 1, DRP, RII

K. Landis, Chief, Engineering Branch, DRS, RII

M. Scott, Senior Resident Inspector - Oconee Nuclear Station, DRP, RII

D. Billings, Resident Inspector - Oconee Nuclear Station, DRP, RI

S. Freeman, Resident Inspector - Oconee Nuclear Station, DRP, RII

R. Hannah, Public Affairs Officer, RII

#### **Duke Energy Corporation (DEC)**

M. Tuckman, Executive Vice President, Nuclear Generation, DEC

W. McCollum, Vice President, Oconee Nuclear Station (ONS)

J. Forbes, Station Manager, ONS

W. Foster, Safety Assurance Manager, ONS

J. Fisicaro, Nuclear Assessments/Issues Department Manager, DEC

M. Nazar, Engineering Manager, ONS

E. Burchfield, Regulatory Compliance Manager, ONS

T. Hartis, Business Manager, ONS

L. Azzarello, Mechanical Systems Engineering Supervisor, ONS

T. Pettit, Customer Relations Manager, DEC

R. Gambrell, Licensing Engineer, ONS

L. Nicholson, Licensing Engineer, ONS

J. Smith, Technical Specialist, ONS

J. Weast, Licensing Engineer, ONS

#### **Others**

T. Crego, Reporter, Greenville News

Enclosure 1

## **Oconee** Nuclear Station

## **Bi-Monthly Performance Meeting**



March 24, 1999



Purpose of Meeting

- Plant Status
- Results of Recovery Plan
- Independent Assessment
- Overview of Performance Improvement Plan

2

Closing Remarks



## Plant Status

	Curre	ent			
	Power <u>Level</u>	Days on <u>Line</u>	1999 Capacity <u>Factor YTD</u>	Next <u>Refueling</u>	
Unit 1	100%	210	100.2%	5/1999	
Unit 2	100%	21	95.9%	11/1999	
Unit 3	100%	80	99.1%	3/2000	
Station			98.4%		



## Plant Status

- Unit 2 forced outage
  - Repaired steam generator risers
  - Safe outage
  - All outage goals exceeded
- Unit 2 reactor trip
  - Caused by fuse
  - Good operator response
  - Thorough investigation by FIP team



## Oconee Recovery Plan

- Initial concept discussed at July 23, 1997 meeting with Region II
- Oconee in mid-1997
  - Too many events
  - Process weaknesses
  - Standards did not keep pace with industry
  - Significant regulatory issues emerging

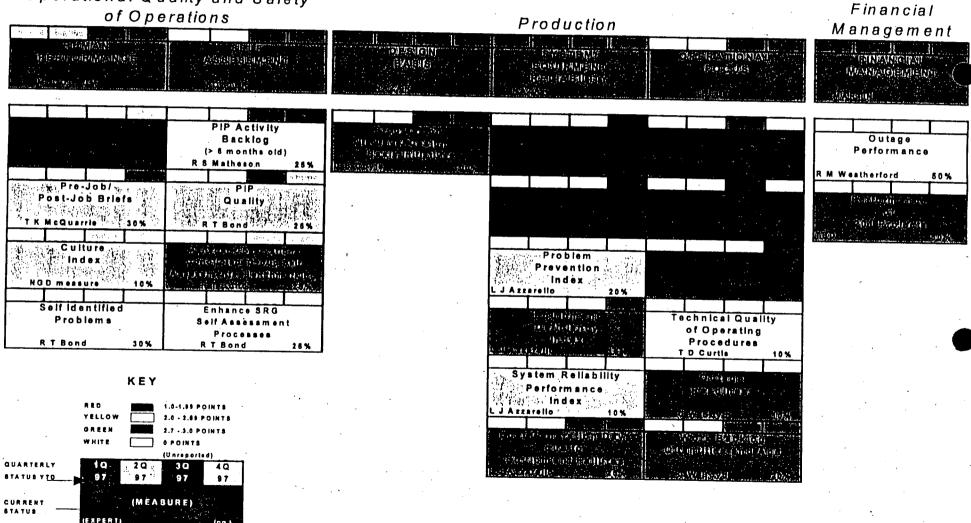


## Results of Recovery Plan

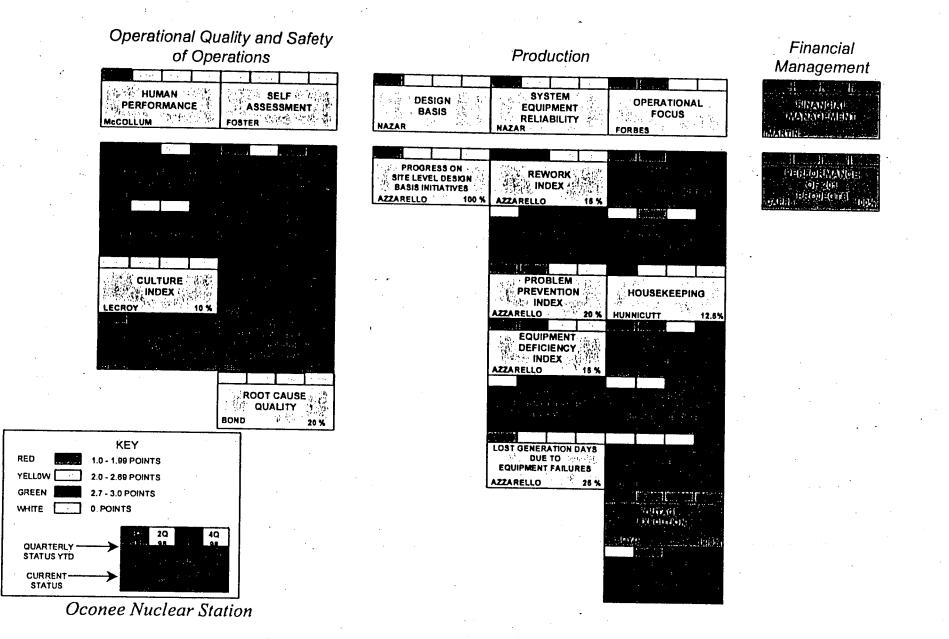
- Strengthened management team
- Structure and processes in place
- Safety culture has improved
- Operational performance has improved
- Design issues being addressed
  - Discovery
  - Resolution
- Performance Improvement Plan will carry momentum forward

**December 1997 Recovery Plan Annunciator Panel** 

### Operational Quality and Safety



**December 1998 Recovery Plan Annunciator Panel** 





## Results of Recovery Plan

- Significant reduction in operating events
- Then:
  - Three AITs and one special inspection between 10/96 and 6/97
- Now:
  - Number and nature of operating events reduced
  - Substantial efforts reviewing design basis
  - Step change in performance of operators



## Results of Recovery Plan

- Substantial progress in reviewing key safety systems
  - High Pressure Injection
  - Low Pressure Injection
  - Emergency Feedwater
  - Emergency Power



Results of Recovery Plan -Operations Improvements

- Substantial improvements in quality of Operations Procedures
  - All Ops procedures with 5 or more outstanding changes reviewed, revised and re-issued
  - All Ops procedure changes resulting from ITS review completed (3200 items)
  - Enhancement request backlog reduced from 1675 to
     264 by year end '98 with 1999 target of 250



## Results of Recovery Plan -Operations Improvements

- Control Room Standards Significantly Upgraded
  - Clear expectations through Core Values
  - Physical upgrading of the Control Room
  - Improving Control Room housekeeping standards
  - Stricter Control Room Access controls
  - Hour by hour schedule
  - Peer Checking, Six Tools, Animated STAR, Pre and Post Job Briefs are now habits
  - OAC and ICS replacement
  - Structured benchmarking and follow-up process



Results of Recovery Plan -Operations Improvement

- Control Room Standards Significantly Upgraded
  - CRIP backlog reduced from 44 to 15
  - Cleared 39 workarounds in 1998
  - Corrective Work Orders reduced from 625 to 337
  - Established Control Room Improvement Team
  - Site wide Housekeeping Upgrade project
  - Increased standards for Operator rounds
  - Supervisor Observation and on the spot coaching



## Results of Recovery Plan -Operations Improvement

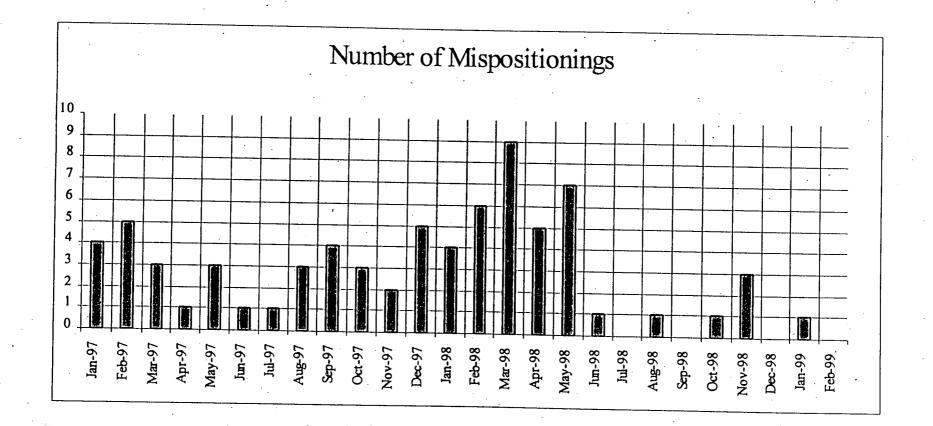
- Results:
  - Active leadership by operators
  - Improved operator response during trips and transients
  - Reduction in outage delays
  - One procedure induced Control Room LER in 1998

14

– Reduction in the number of mispositionings



## Results of Recovery Plan -Improved Operator Performance

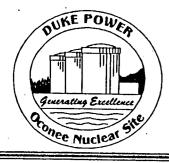


Oconee Nuclear Station



## Results of Recovery Plan

- More rigorous processes to address equipment issues
  - TEPR
  - MEPR
  - FIP
  - Plant Concerns list
- Proactive Initiatives
  - Steam Generator Reliability
  - Piping Reliability
  - Equipment Aging
  - Secondary System/Equipment Reliability
  - System Teams



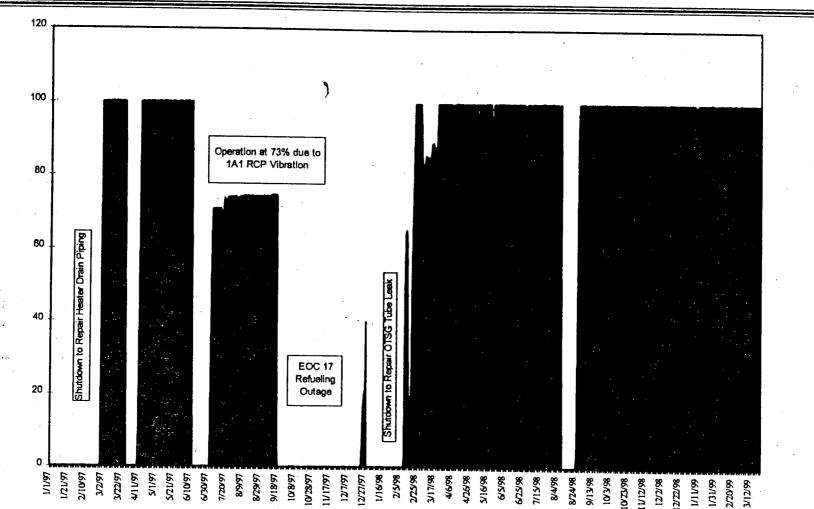
## Results of Recovery Plan

- Major Mods Completed
  - OAC
  - ICS
  - Service Water
- Number and nature of equipment issues improving
  - EFPDs lost due to equipment problems declined from 106 per unit 12/97 to 35 per unit 12/98
  - System Reliability Performance Index increased from 6 year end '97 to 11 year end '98
  - Unplanned capability loss factor decreased from a rolling 12 month average of 32.0% in December 1997 to 6.1% in February 1999

- Power history curves improving Oconee Nuclear Station



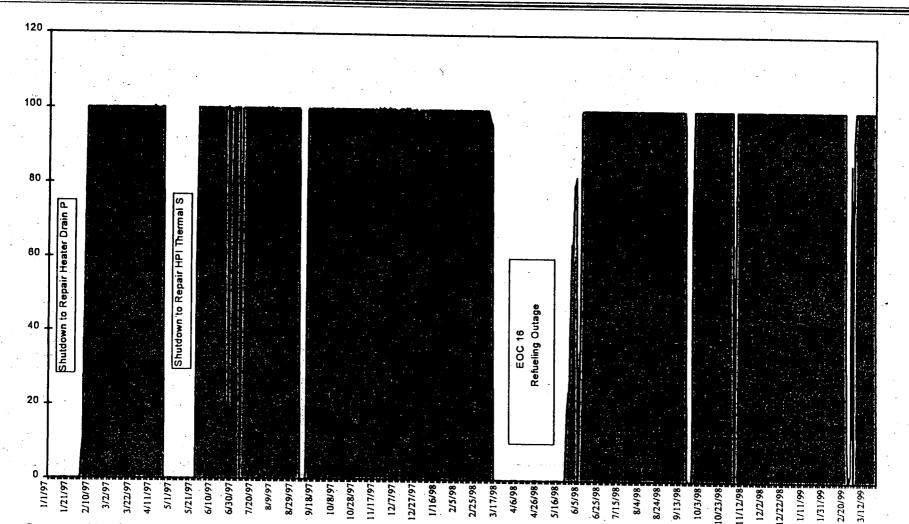
# 1997-1999 Unit 1 Power History



Oconee Nuclear Station



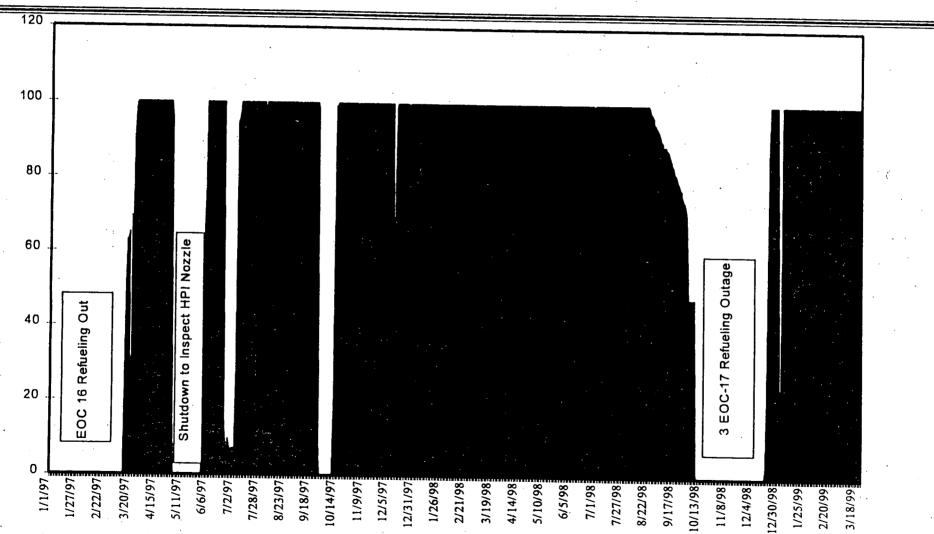
# 1997-1999 Unit 2 Power History



Oconee Nuclear Station



# 1997-1999 Unit 3 Power History



Oconee Nuclear Station



## Results of Recovery Plan

- Steady progress in corrective action program

   More self-critical (2846 PIPs in 1996, 4676 PIPs in 1997, 6101 PIPs in 1998)
  - Backlog reduced
    - PIP corrective actions > 6 months old reduced from 512 in August 1997 to 175 in December 1998
    - Management exception corrective actions reduced from 593 in August 1997 to 498 in December 1998
  - Quality improving



## Results of Recovery Plan

- Corrective Action Program Focus Areas
  - Backlog Reduction
  - Backlog Prioritization
  - Quality
  - Monitor PIP Generation Threshold and Categorization



## Summary

- Recovery Plan laid foundation for further improvement
- Progress in each focus area
- More work remains
- Independent review requested to validate Oconee trends
- Improvement Plan continues to address key areas vital to achieve and sustain high level performance



## Purpose

- Requested by ONS Site Vice President
- Assess progress of recovery plan efforts
   Determine if sufficient progress has been made to transition to continuous improvement plan (Compare 1997 to 1999)
- Not a complete review of all recovery plan items



Team Composition

- Led by Manager NAID
- Senior Managers and Specialists
- Independent of ONS
- Multi-Site and General Office Involvement



## Areas for Review

- Operations Focus Area
- Design Bases, UFSAR, and Equipment Reliability
- Self Assessment, Corrective Action, Work Management, and Human Performance



## Method of Evaluation

- Four areas to address
  - Evaluate extent of progress
  - Evaluate adequate programs and processes in place to support process improvements
    - Change institutionalized
  - Adequate measures and programs in place to move to continuous improvement plan
- Interview, observation, and verification



## Summary

### **1997** Perspective

- Lack of clear direction and vision
- Expectations not clearly communicated
- Lack of Accountability
- Some standard Duke processes had not been implemented
- Self-critical culture lacking
- High number of plant events
- Lack of engineering focus

### **1999** Perspective

- Exists now and is reinforced
- Communicated and reinforced at most levels
- Accountability significantly improved
- Processes now implemented, used, and producing results
- Improved culture now exists
- Events significantly reduced
- Engineering working on right issues

### Progress has been made Plant realizes continued effort for improvement is necessary Plant is developing 1999 plan

**Oconee** Nuclear Station



## Recommendations

Identified a number of recommendations (80)

Three Categories :

- Important for success
  - Root cause quality
  - Maintenance Work Control
- Important to help improve process (Heads up)
- Good Ideas



## **Operations Review**

### Scope

- Areas selected for review
  - Equipment reliability (operations perspective only) \*
  - Housekeeping and material condition
  - Work management process improvements \*
  - CRIP management reduction
  - Technical specifications surveillance program
  - Technical quality of operations procedures
  - Operations ownership
- \* Results reported later in presentation.



## **Operations Summary**

### **1997** Perspective

- Vision and expectations lacking
- Outstanding operations enhancement requests high (1675)
- High number of control room indicator
- Control and ownership of T.S. surveillance program lacking
- Reluctance to take charge and demand results
  - Poor housekeeping and material condition

### **1999** Perspective

- Focus and emphasis improved. Reinforcement through APA and shift briefings.
- Backlog reduced to 230. Turnaround time considerably reduced. Operators using process. Significantly fewer procedure inadequacies.
- Reduced to 15 per unit. Focused efforts by Operations to implement CRIP process.
- Established accountability, improved tracking and monitoring.
- Standards in control room significantly upgraded (i.e., traffic and noise reduced, control board monitoring, etc.) Operations leadership evident in work around process. Operations driving resolution to issues.
  - Upgraded rooms (HPI, LPI, Penetrations, etc.) Significant amount of material taken out of plant. Matcon Team established-reduced deficiencies from 4500 to 2300. Ownership improved.



# Operations

32

### Recommendations

- Total for this area 15
- Sample of recommendations



## Engineering Review

### **Areas for Review**

- Equipment Reliability
  - TEPR Program
  - System Team Development
  - Fluid Leak Management
  - Management of Temporary Modification
  - Equipment Aging
  - Secondary System/Component Reliability
  - Piping Reliability
  - Engineering Support Program
- Design Bases
  - Safety system reviews
  - Improved technical specifications
  - UFSAR review project
  - Configuration management



# Engineering Review

Design Bases, UFSAR, Equipment Reliability

### **1997** Perspective

- Unclear direction and expectations
  - Engineering priorities not aligned with customers
  - Lack of accountability and followup
- Engineering work management poor

• Equipment reliability lacked focus

#### **Oconee Nuclear Station**

#### **1999 Perspective**

- Engineering direction and focus clear
  - Development of leadership model.
     Daily tracking and monitoring of issues and projects.
     Accountability is reinforced.
     Customers satisfied with support/products.
- Work management tool developed.
  - Organization understands priorities. Improved focus and follow-up.
- Process (TEPR) implemented.
  - Some long standing issues resolved. Remaining items requiring action tracked and prioritized. Organization using processes.



### Engineering Review (Continued) Design Bases, UFSAR, Equipment Reliability

### **1997** Perspective

• Many processes/tools not implemented

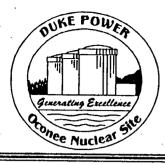
- Safety System Reviewed
- UFSAR Review Project

Oconee Nuclear Station

### **1999** Perspective

- Duke standard processes

   implemented. (i.e.,Nuclear
   Excellence Team, Design Review
   Board, Daily Focus Meetings,
   TEPR, Configuration Management,
   etc.) Program institutionalized.
   Organization using tools/
   processes.
- A number of reviews completed (HPI, LPI). Process laid out to schedule future systems.
- Initial effort complete. Follow up on project.



## Engineering Review

36

### **Engineering Recommendations**

- Total for this area 29
- Sample of recommendations



# Safety Culture / Work Process Review

### **Areas for Review**

- Human Performance
- Self Assessment
  - Manager Observation/Group Assessment Effectiveness and Benchmarking
  - Enhances SRG Self-Assessment
- Corrective Action Program (CAP)
  - PIP Quality
  - PIP Backlog
  - Root Cause Quality
  - Note: Didn't look at entire CAP because of recent assessment
- Work Management



## Human Performance

#### **1997** Perspective

- Several significant human performance related events
- Organization had not implemented the Duke standard human error reduction techniques

#### **1999 Perspective**

- ONS implemented numerous initiatives to improve human performance (i.e., six tools, manager observation program, etc.)
- Human performance related events have declined
  - \* Human error site wide PIPs are down
  - \* Component mispositionings are lower
- Direct observation of job briefings and workers indicate positive use of six tools
- Programs have been institutionalized



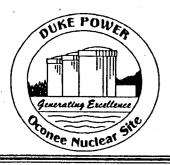
## Human Performance

39

Recommendations

– Total for this area - 2

- Sample of recommendations



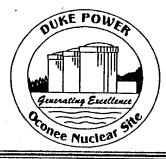
# Self Assessment (INOT)

### **1997** Perspective

- SRG Oversight was not at required levels
- SRG not finding issues, as required
- Overall, not a good self critical culture

### **1999** Perspective

- Independent Nuclear Oversight Team (INOT) implemented
- Personnel rotated through group INOT continues to improve
- Recently, two (2) good assessments were done by INOT (i.e., corrective action program, ITS)
- This is an improving area
- Continued management focus in this area will ensure that we continue to improve process
- The concept of having a self critical culture continues to improve at Oconee



## Self Assessment

### **1997** Perspective

- The number of manager observations, group self assessments,
  - and benchmarking were low
- Inwardly focused
- Lack of self assessment culture

### **1999** Perspective

- Processes were implemented
- A high number of manager observations performed. Many were of good value
- Group self assessments increased considerably
- Benchmarking was performed
- Many actions were initiated as a result of the above reviews

41

 Self assessment culture is emerging as a standard ONS concept



## Self Assessment

42

Total for this area -14

### Sample of recommendations



## **Corrective Action Program**

### **1997 Perspective**

- PIP quality low
- PIP backlog high (350)
- Root causes needed work
- Identification low (2000)

### **1999 Perspective**

- PIP quality improved SRG rejection rate lowered 30% to 10%
- Backlog reduced to 175
- Number of root causes increased Quality of root causes improved. Still need work
- Rate now 6000+
- New processes implemented to improve management focus (i.e., corrective action review board and corrective action review team)



## **Corrective Action**

Recommendations

- Total for this area 10
- Sample of recommendations



## Work Management

### **1997** Perspective

- Not implemented in accordance with Duke process
- Work items not scheduled
- Changing priorities
- Backlog high

### **1999** Perspective

- Implemented standard WCQIP process
- Control room has been freed of traffic and noise
- Scheduling/Planning from T-2 to T-0 window is in need of work
- Process has been institutionalized
- The organization is not using the PIP process to learn from improvement areas
- Backlogs have been reduced significantly



## Work Management

46

- Recommendations
  - Total for this area -10
  - Sample of recommendations



## Conclusions of Review

- Significant progress made
- Generally completed recovery plan items
- Staff generally knew problem areas
- In process of documenting plan for 1999
- Staff open to input/feedback (learning organization)
- Continued effort is necessary
- Evidence supports moving to continuous improvement plan



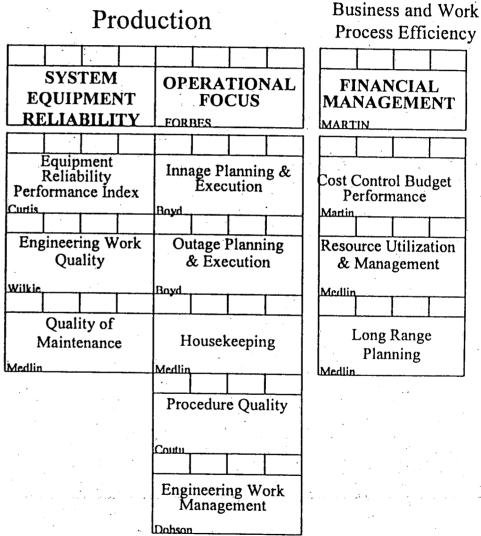
## 1999 Improvement Plan

- Focus areas consistent with Recovery Plan
- Key is effectiveness of implementation
  - Accountability
  - Focus on execution
  - Enforcing standards

ONS Improvement Plan Focus Areas for 1999

#### Nuclear Safety

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Indicators of Success

- · Top Quartile in Nuclear Safety measured by NRC SALP & INPO Rating
- Top Quartile in Capacity Factor & On Peak Availability

NRC MEASURE

(FOSTER)

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and the building water REACTOR

CORE SAFETY

HUMAN

PERFORMANCE

INDEX (FOSTER)

SELF ASSESSMENT

PROGRAM

(FOSTER)

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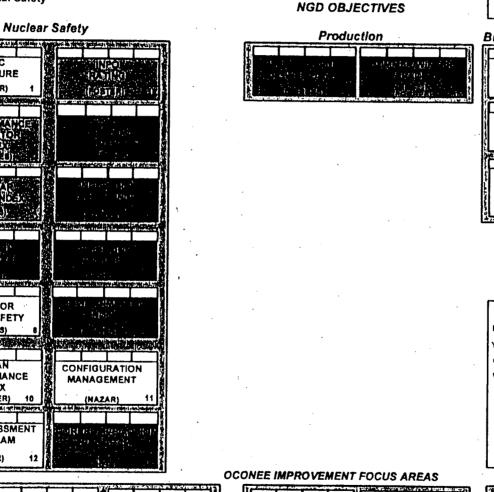
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(FORBES) 

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- Top 10 In Production Cost
- Top Decile in Industrial Safety

#### **OCONEE NUCLEAR SITE PERFORMANCE MEASURES** February 1999



EARNINGS PER SHARE	DUKE POWER EBIT			
\$ (MARTIN) PG	\$ (MARTIN) PG			
Business and Work	Process Efficiency			
OPERATING	OPERATING			
COST	BUDGET			
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SYSTEM OUTAGE

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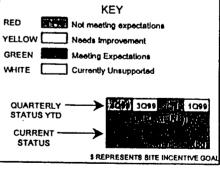
PROJECT

MANAGEMENT

(MARTIN)

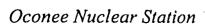
FINANCIAL MANAGEMENT (MARTIN)

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SYSTEM /	OPERATIONAL	
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# Closing Remarks

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OCONEE RECOVERY PLAN ISSUES CHECKLIST

[Status: 30 of 44 "Essential to Recovery" items have been closed; 14 remain open, with NRC1 (EOPs) having the longest lead time of 9/99]

Area	Action	NRC Lead	Licensee Status	NRC Inspection/Action (Date/IR/Results)	NRC Status
LICENSEE RE	COVERY PLAN ACTIONS				
Design Basis					
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. ATTACHMENT

Enclosure 3

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[DB3] N9702	Oconee Safety Related Designation Clarification (OSRDC)	Landis (NRR-Any licensing issues)	Projected completion- 5/15/98- 1/99	7/27-31/98; 98-08 (Schin, Thomas): A-5C,4A 8/24-9/4/98; 98-08 (Schin, Thomas); P-4C & G-4C	Open
	Rəədilyve EC((W Succi;iw)n Suppily itig LIPSW ((OSW))	<b>L'anidits</b>	(Piroutecited) Gonnaitest ilon (6//11/198) (6//11/1999)	98 (05((Ke)) (koec)) E 28 98 (08); (P 28) & A-5A 38, 5C III//2-6 (2 1)(6 20)/98); 98-1(0 ((III40)125)) 2 (6- 3A, 48	(Cilosed
[DB5] N9706	UFSAR Review Project	Landis	Projected completion- 12/31/98- 6/30/99	10/5-9/98; 98-09 (Schin, Thomas); P-4A,4C,5A 4/19-23/99(Schin) 6/7-11/99 (Schin)	open
[[DB6]] (176)	SQUE Quitillican Resollutilican Revikew	llandils	Phrojjecticaa compileat iloin- 6//30//98 2002	8//311-9//4//981, 98-08 ((Chov)): G-4B, 5B, 5C & P-2A, 5A	Closed

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IIDEN Isista utatoo	Emilerigenciy Power Project	Chiristinot,	<b>(₅)//11//939</b>	98-07/ E-4/A 4(C, 5/A, 50 98-08. E-4B & G-4B 5B 5C	Cillosed
[LDB83]] states	(CIL, GID: OG IRevivew) (Gatora: II ficteras: Itag) fistoutos))	Landriks	Piriojjeciled  conjpikeli i(oji) 7//100/938- UBE00018	7//11/3-11/7//98; 98; 077 (UMoopre)); G:418 93:08: A.4B; 5A, 5C 8: G:11/A; 33 110//5-9//93; 98:09	Chlosed
[DB9] N9801	EFW SSEI	Landis	Complete Action Plan 30 days after report entered into PIP	8/24-9/4/98: 98-08 (Schin): P-4A.5A 98-09 (Schin. Thomas): P-4A.5A	Open
[DB10] N9811	Configuration Management Project	Landis	Projected completion 12/31/98	9/14-18/98; 98-09 (Schin, Thomas); No Assessment 11/30 - 12/11/98; 98-11 (Thomas); P- 4A.4C.5C 2/1-5/99 (Thomas), 2/22-26/99(Smith); P-4C.5C	Open

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System Equipment					
(SPA)()	Material Condition (1) Upgnader	Scott 242 Aug	(10799 <b>2</b> 374) (107992374)	98:06:4G72A+2B 3A+- 5	Closed (P)
				98-111 G-2A 28 99±01 XA-2A	
[SE2] N9714	Control Rod Drive Mechanism Replacement	Billings	U3EOC19	(Closure pending) 98-06: G-4B,5B	0pen
ISECON PARAMA		· · · · · · · · · · · · · · · · · · ·	Maren i Mala minimi mala Manufacta e dan dan dan sana da	98-09; A-4B,5B 99-02 (Proposed)	
	HAYODIRANI I KASONU KINON HAROCASO ((TILIAR))	Fireeman	Ongoting	98-10;; G 2A 28,56	Glosed
ISEAL apro	Savsuem Tieam Deveilopment:	llandijs	Complication	110//5-9//98, 98,09 (Moore, Ilhonasi) A-4B	Cliosed
	Filufiid Leak Managamanti Program	(Fineenan)	(Pirrou)(actitad) (ctompuliett iloin) 11.11/11/988	98 09 A-28	icilosed)
SEG1 19999	ireinporary Moon frient ilons	Llatadiils "	Projlectred completi (op 4/ 15/99	40%5-9%981.98-09 (Schuh, Ukomasi) G-48.40	(Gilosed)
ISE74) NR746	(CRUP Meinagemant, and Reductition	Bil 11 I Tanges	9//11//93	98-09. G-1/Ay/2B.3C	Cllosed

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	Untsenvilee Unispectition Program Assessingati (Unciludes tiemporary dentance D)) Secondary System Component Relited Inity	Firedrikson Landus	Солрикеве	98.05 A 28 (HPT) 98-05 G 28 (OIISE) 98-05 G 28 (OIISE) 98-07 (Chirand) 6-ac (AUG IST) 8/17-21/98 98-08 (Blake)) G 28(OTSE) 10/26-80/98 98-10 (Blake)) A 28.3A (ISI) 11/29 10/98 98-10 (Blake) G 28,3A (ISI) 10/5-9/98 98-09 (Schila: Thomas) 6-2C 48	CNosed Chosed
[P1] <del>1</del> 9720	Human Performance Measures and Organization Direction (ORP)	Scott	12/31/98	98-06; G-1A.3B & A-2B.3A 98-10; P-1A.3A (Proposed) 98-11; P-3A.3B.3C 99-03 (proposed)	Open

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Self- Assessment					
[SA1] N9730	PIP Activity Backlog	Landis	12/31/98	8/24-9/4/98; 98-08 (Schin, Thomas); P-5C	Open
•				11/30 - 12/11/98; management exception items: 98-11 (Schin, Thomas); P-4B,5C	
				2/1-5/99: 3/8- 12/99 (Girard); 99-01: P-4B,5C-NCV 99-02 Proposed	
[SA2] N9732	PIP Quality Improvements	Landis	Complete	8/24-9/4/98; 98-08 (Schin, Thomas); G-5A.5B & A-5B.5C	Open
				11/30-12/11/98; 98-11 (Moore, Schin, Thomas); P- 5C	
				3/8-12; 99-02 (Girard): P-5B,5C proposed	

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[SA3] N9731	Manager Observations and Group Self- Assessment	Landis	12/31/98	11/30-12/11/98; 98-11 (Schin, Thomas); A-5A	Open
USA4J LOUD	Dunpilant: Revikew/SRG Dobi Observatition Program	Lanchis .	1/2//01//98	98.08, A.5A 11//30 112//11//98 98-111 ((Thomas)), A- 5A	Glosed
Operational Focus		an and an insurance of a local second district of the second second second second second second second second s			
[OF1] N9740	Root Cause Analysis and Corrective Action for Operational (Misposition) Related Events	Billings	12/31/98	98-06; G-5B.5C.4B & P-5B 98-11: P-1C.3C.5C 99-02 proposed	Open
	Technical Quality of Openaving Procedures	Scott	Projected A completion 12/1/98	99-01 A-1G (proposed closure)	Glosed () (P)
	upenau ionali. Concernsi	Billings	Protectied complication	98-06: A-3B-1C 98-09:G-1A-3C	Closedi
	Rilsk Assessment	<b>Fizeeman</b>		98-111-7A-28	Gilosed

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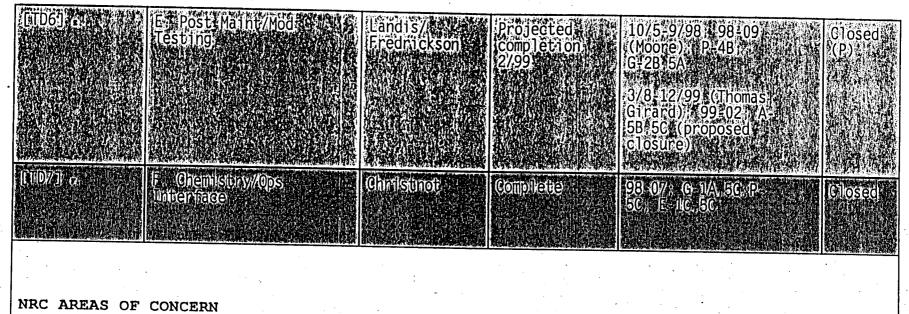
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[[0]75]] MIXE	Work Backilog Manageneni:	lineetrikelasion	PROUTECTUE COMPLETICION 10/11/28	111//2-(6//98: 98:40) ((Callobs)) ; (Ci-28	Cilosed .
[1076]] (076)] (1076)]	Outrage Readilinesis	linedrikskom	Phojiccuco conjoketikon 11//1/98	111//2-6//98:-98-110 ((Ghilbos)): (G-28	Cilosed
Temporary Defense		anan ana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'n			
אילי (בתקווי)	A. 1. Meinegentent oversight observention	Fireeman	Completie	98-06: G-1(A, 3A-3G 98-10: G-3C 56	Closed
(CIND27), 1 <sub>212</sub>	A. 2. Meineleinilenii Oxtersileinii. Clurinne Siirariillio//shuliclovin	Freeman	Gomerkette		Cilosed
(1108)) (1108)	A. 3 Ilinixanticoley Montificor inac Unhanciancini s	Firteenlan	Complicate	193 06; 16, 1/A, 50	Cilosced
["11074]], 13,	B. Eing/Ops/Mitailint. Uniticaritaces	llandtis// Firadrikeksion	Complette	1/0//5 9//93): 93 09 (Moonte)), G 4B	Cillosed
(jītd5j) a.	G Linphoved Thoubhe- Shoothing	(Fineemant	Complete	98-111 /A-28 99-011 /A-281 (Closure proposed)	Closed

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[NRC1] Operational Focus	Emergency Operating Procedures	Landis	8/99	9/99; (Rogers, Schin, Hopper)	Open
	Safety Assessmentern ver Quallity Verifinication (fineluding OEF)	Christnot		Proposed 98-09.G-1C+4C(OEF) 99-011 A-4B (5A (5B) 5C (Closure 4A (47) proposed)	Glosed (P)

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ENDOOD		· · · · · · · · · · · · · · · · · · ·			
[NRC3] Design	CREV SSEI	Landis		98-03 (Poor)	Open
Basis/Tech Support			•	8/24-9/4/98; 98-08; G-5C,4B	
				10/5-9/98; 98-09 (Shin); G-2B,4B	
				99-02: (Thomas) proposed	
li NRC41) Destigia Bestis/Jiecela Support	Eintenigrantsy, Eikecturtikoent Diistoriilbuittiona Syystuem Revikew ((Trac. 7408816 408887 7408888)	INRR		Filinail Report. Itssued 1.//19//99	Cilosed
[NRC5] Equipment	Containment Coatings	Landis	The second s	10/14/98; 98-09 (Lenahan); G-4A.5B	Open
				11/16-20/98; 98-10 (Lenahan); P-2B	
				6/99 (U1RFO): (Lenahan) proposed	
IINRCIDII Equilipmente	ikeowee W Binenker Mods/Arepilercementi	Chirilsional		198-110 G-47A AB 4C	Cilosed
[NRC7] Human	Maintenance Procedures (Adequacy	Christnot	,	98-10; P-2B	Open
Performance	and Compliance)			99-02 (Proposed)	•
					•

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	Essential for Recovery				
	98-01 Pzr & Letdown welds	NRR			
	98.GO.0001 VII-8 exam red	NRR		Glosed 107/1798	Closed
a sa a na matang mga tang tang mga mga mga	98-GO-002 Bolting torque	NRR	un senerar morana ya na mana senerara a ya na ana a ya na ana ana ana ana an		<u>161   253961/254794/9461/9</u> 5
	93: CO 0003 Aliti, ito GXENI ON: CONCINCICA CONTELUNIENT	NRR		C.1K055F30[ 1101/11//918]	Cilosed
	Fatigue Analysis	NRR	A LAN MANANANA WANANANANANANANANANANANANANANANA		
	Openatuhner Expertience Prognam	Chrystunet,		98-09 (Proposed)	Gilosed
	Operational Safeguards Response Evaluation (OSRE)	Landis		and and a subscription of the second strain and a subscription of the second strain of the second strain of the	
	Severe Accilolanti Managenenti Gundellinas (SAMOs)	Bild Humps		97-13	Closed
	OAC Repliecement Project	Freeman		98.060	l Cilosed
	ONS Equipment Aging Project	Julian		(Proposed review under licensee renewal)	Open

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	Dittegraited Contrail System Replacement	(Freeman)		98-06	Closed
Other NRR Ac	tions (Not Essential for I	Recovery)	A STATE OF A	I narun seus mantes a neutra provinsi na seus su successi da se seus da seus da seus da seus da seus da seus d	The second s
	SQUG (Outliers monitored under licensee's program)	NRR			
	ITS	NRR			
	HPI Amendment	NRR	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
	CREV (TIA)	Landis			
	Serwilde: Watter Antendintenti	NRR		(NRC) Ilettiter deficed 44/241/198 ((TrAC) 1992187 10992188, 1992189)	icilosedi
	MSL Break Detection (BL 80-04)	NRR	and a second	а столи на мариловане в почењени на кара нарадија и колони практи и каралени и колони и каралени и каралени и и Почењени на каралени и почење в почењени на каралени и каралени и колони и каралени и каралени и каралени и кар	In Case of the Information of th

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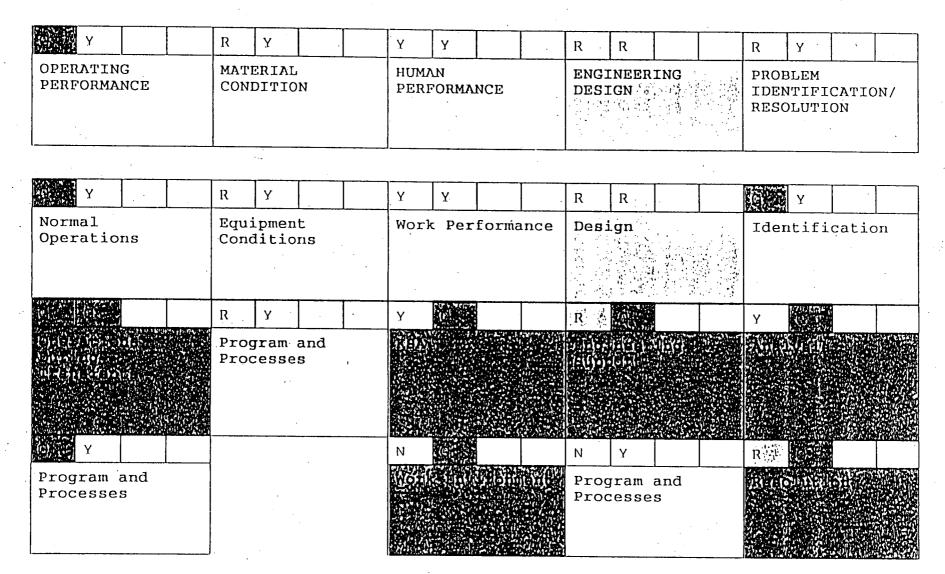
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#### OCONEE ROLLUP 2/9/99



Enclosure 1

Enclosure 4

#### EFW SYSTEM OPEN ITEMS

ITEM NUMBER	TYPE	DESCRIPTION
50-269,270,287/98-09-02	VIO	No QA Records to Assure the Ability of EFW Pumps to Operate at Runout
50-269,270,287/98-15-01	VIO	Failure to Update the UFSAR
50-269,270,287/98-15-02	EEI	Inadequate 10 CFR 50.59 Safety Evaluations
50-269,270,287/98-15-03	EEI	Emergency Procedure Not Adequate to Mitigate Secondary Pipe Break Events
50-269,270,287/99-10-01	URI	EFW System was Designed to Fail During a Main Feedwater Line Break or Non-Seismic Pipe Break
50-269,270,287/99-10-02	URI	10 CFR 50.59 Evaluations Incorrectly Implemented the EFW Licensing Basis
50-269,270,287/99-10-03	IFI	Testing HPI Pumps when Powered From ASW Switchgear
50-269,270,287/99-10-04	IFI	EOP Steps Not Written Clearly or in a Consistent Format
50-269,270,287/99-10-05	IFI	Ability to Throttle EFW Within Three Minutes
50-269,270,287/99-10-06	IFI	Licensing Basis Revision to Credit Main Steam Line Break Protection Circuit for Protection of the TD EFW Pump From Insufficient NPSH
50-269,270,287/99-02-XX*	IFI	Procedure AP/0/A/1700/25 Guidance for Establishing Flow to the RCP Seals and to a Dry OTSG from the SSF

\* Proposed

Enclosure 5

#### VIOLATIONS REQUIRING INSPECTION FOR CLOSEOUT

**ITEM NUMBER** 

EA 97-298-01012

50-269,270,287/98-03-01

EA 98-199-01014

50-269,270,287/98-08-02

50-287/98-10-06

EA 98-268-01012

50-269,270,287/98-15-01

#### DESCRIPTION

Failure to Adhere to the TS Operability Requirements for the Unit 3 High Pressure Injection System

Untimely Reporting of Design Issues (denied violation)

USQ Involving Single Failure Introduced by a 1984 Control Room Ventilation System Modification

Inadequate 50.59 Safety Evaluation for 1996 UFSAR Revision Related to ECCS Pumps' NPSH Analysis

Failure to Provide Separation of Redundant Safety-Related Cables Inside Enclosures

Failure to Meet Technical Specifications and 10 CFR 50.46 for Long Term Cooling

Failure to Update the UFSAR