



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

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ARLINGTON, TEXAS 76011-8064

NOV 27 1995

Entergy Operations, Inc.
ATTN: C. R. Hutchinson, Vice President
Operations - Grand Gulf
P.O. Box 756
Port Gibson, Mississippi 39150

SUBJECT: GRAND GULF SELF-ASSESSMENT MEETING

This refers to the meeting conducted in the Region IV office on November 21, 1995. This meeting related to self assessment and performance attributes for each of the functional areas for the past 2 years.

We found the information provided to be informative and were encouraged by your recognition that challenges, especially complacency, remain.

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

Should you have any questions concerning this matter, we will be pleased to discuss them with you.

Sincerely,

J. E. Dyer, Director
Division of Reactor Projects

Enclosures:

1. Attendance List
2. Licensee Presentation

cc w/enclosures:

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Entergy Operations, Inc.

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Entergy Operations, Inc.

~~bcc to DMB (IE01)~~

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MIS System
Project Engineer (DRP/D)
RSLO
P. O'Connor, NRR

Resident Inspector
Leah Tremper (OC/LFDCB, MS: TWFN 9E10)
RIV File
Branch Chief (DRP/TSS)
PAO

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bcc to DMB (IE01)

bcc distrib. by RIV:

L. J. Callan

Branch Chief (DRP/D)

MIS System

Project Engineer (DRP/D)

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GAPick <i>[Signature]</i>	PHHar <i>[Signature]</i>	JEDyer <i>[Signature]</i>					
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Grand Gulf Pre-SALP Meeting

*November 21, 1995
NRC Region IV*

Grand Gulf/NRC Pre-SALP Meeting

November 21, 1995

- 
- ◆ **SALP Period Overview** **Dan Pace**

 - ◆ **Operations** **Joel Dimmette**

 - ◆ **Maintenance** **Ron Moomaw**

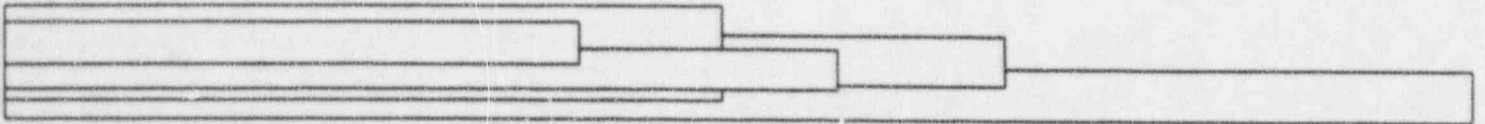
 - ◆ **Engineering**
 - **System Engineering** **Charlie Ellsaesser**
 - **Design Engineering** **Dan Bost**

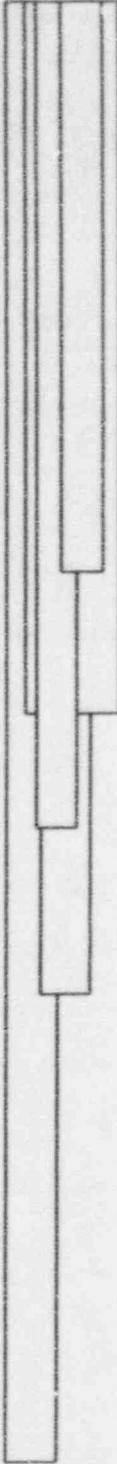
 - ◆ **Plant Support**
 - **HP/Chemistry** **Joel Dimmette**
 - **Emergency Preparedness** **Dan Pace**
 - **Security** **Dan Pace**
 - **Quality Programs** **Mike Meisner**
 - **Nuclear Safety & Regulatory Affairs** **Mike Meisner**

 - ◆ **Summary** **Randy Hutchinson**

SALP Period Overview

Dan Pace
General Manager, Operations





Beginning of the SALP Period

What we were faced with:

- ◆ **Sustaining strong performance after the most successful SALP period in our history**
- ◆ **Competitive pressures and reduced resources**

What we did:

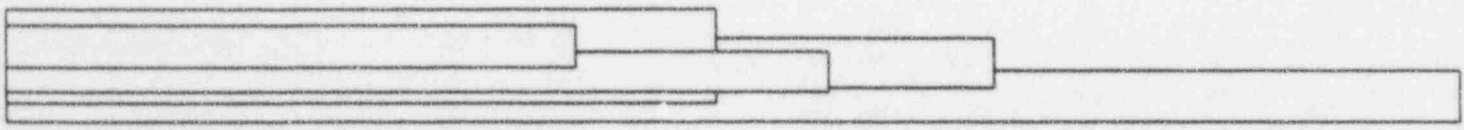
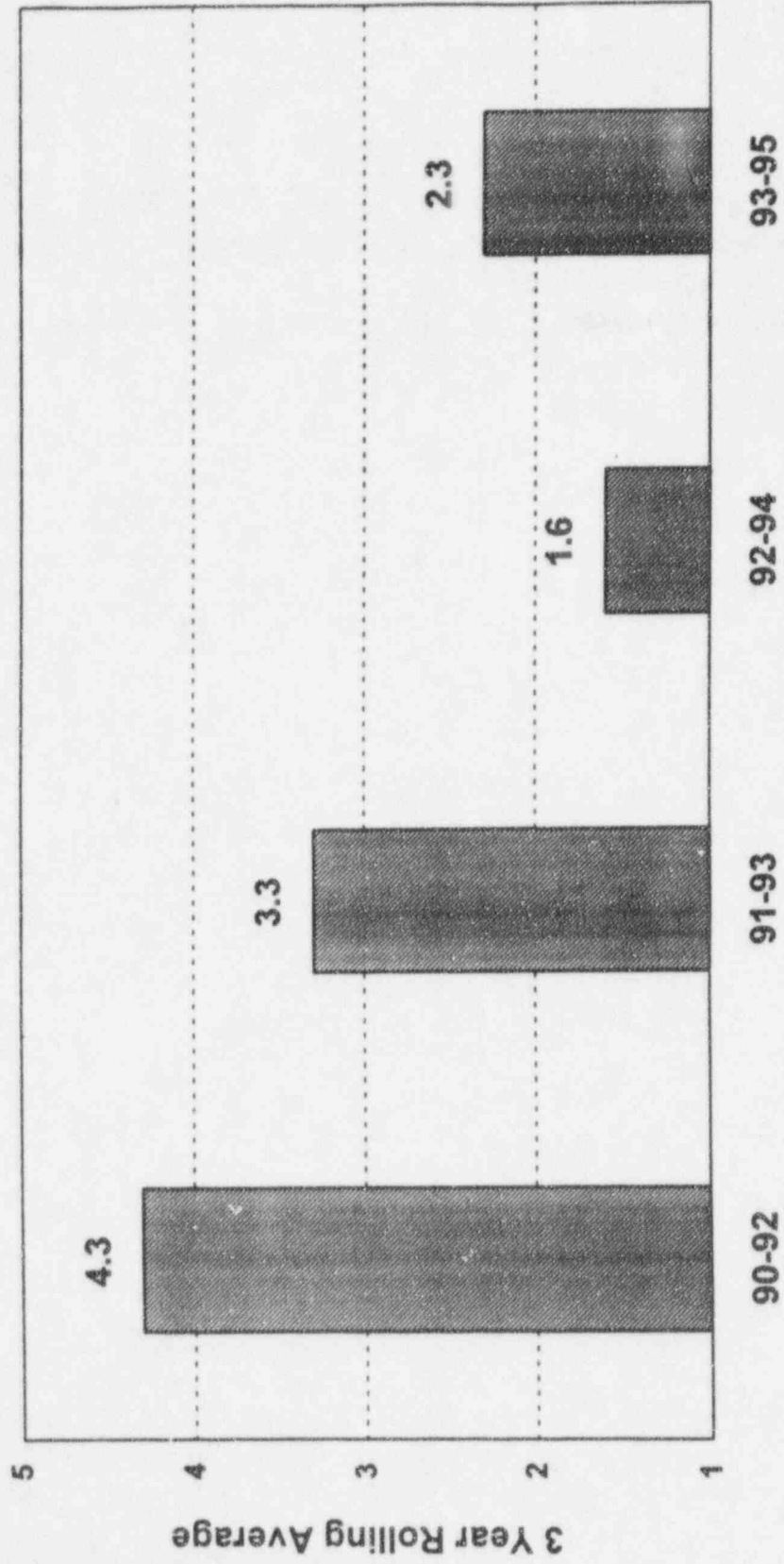
- ◆ **Focus on what's important**
 - **Safety**
 - **Complacency**
 - **Personnel error rate**




Results

- ◆ **Scram rate is the exception - it assumes undue prominence due to lack of other problems**
- ◆ **Performance this SALP period equaled, and in many cases exceeded, our previous SALP period**

Automatic Scrams



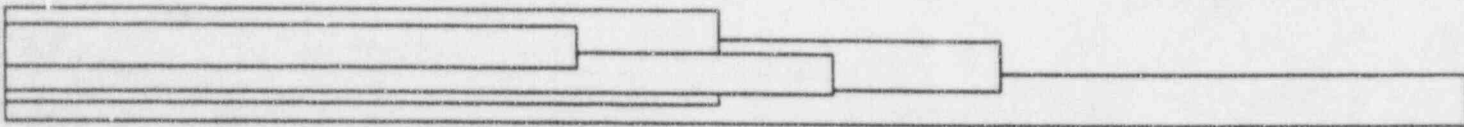


Performance Overview

- ◆ **Excellent personnel error performance as a result of site focus**
- ◆ **Continued declining trend in safety significant events**
 - **LERs**
 - **No NRC-classified significant events**
 - **No escalated enforcement actions**
 - **Declining cited violations**
- ◆ **Safest refueling outage in history**
- ◆ **Fourth consecutive INPO '1' rating**
- ◆ **Industry leader in innovative solutions to regulatory burden and licensee over commitment**

Operations

*Joel Dimmette,
Manager, Operations*






Operations

- ◆ **NRC challenge - inattention to detail**


- ◆ **Actions**
 - **Improving Human Performance Program**
 - **Ops trending of human performance issues**
 - **Self-checking emphasis**
 - **“Peak to Peak” meetings**

- ◆ **Results**
 - **Personnel error LERs lowest ever**
 - **Personnel error violations below last SALP period**




Operations Strengths

- ◆ **Command and control**
- ◆ **Conservative decision making**
- ◆ **Communications**
- ◆ **Direct involvement in work control (including on-line maintenance)**
- ◆ **Control room annunciators**
- ◆ **Ownership of training**



Operations Enhancements

- ◆ **Human performance initiatives**
- ◆ **Self-assessments**
- ◆ **Chairing Training Review Group**
- ◆ **Operator training**
- ◆ **Radwaste control room and program improvements**



Operations Areas for Improvement

- ◆ **Protective tagging**
- ◆ **Equipment configuration control**
- ◆ **Timely call-in**
- ◆ **Measurement of shift performance**




Maintenance

Ron Moomaw
Manager, Maintenance



Maintenance

- ◆ **NRC challenge - control of contractors**
- ◆ **Actions**
 - **Supervisory oversight**
 - **Resource sharing**
- ◆ **Results**
 - **Improved contractor performance**
 - **No significant RF07 events due to contractors**




Maintenance Strengths

- ◆ **Maintenance Standard of Repetitive Excellence**
- ◆ **Improved human performance**
- ◆ **Maintenance Rule implementation**
- ◆ **Reduced work order backlog**
- ◆ **Reliability centered maintenance**



Maintenance Enhancements

- ◆ **Job performance measures and mock-ups**
- ◆ **Cross-training**
- ◆ **Chairing Training Review Group**
- ◆ **Minor maintenance program**
- ◆ **Superintendent/Supervisor crew performance measures**
- ◆ **Procedure control transferred back to Maintenance**



Maintenance Areas for Improvement

- ◆ Procedure adherence
- ◆ Attention to fundamental work practices
- ◆ Foreign material control
- ◆ Material condition of the plant
- ◆ Oil spill prevention in outages



Engineering/ Technical Support


Charlie Ellsaesser
Manager, Performance & System Engineering

Dan Bost
Director, Design Engineering




Engineering/Tech Support

- ◆ Design Engineering
- ◆ Performance/System Engineering
 - System Engineering
 - Engineering Support
 - Reactor Engineering
- ◆ Outage Scheduling




System Engineering Strengths

- ◆ **System walkdowns**
- ◆ **Aggressive problem resolution e.g.**
 - **RWCU**
 - **DW temperature increase**
 - **Power supply failures**
- ◆ **Use of trending programs**
- ◆ **Vibration monitoring program**




System Engineering Strengths

- ◆ Check valve non-intrusive testing
- ◆ Maintenance Rule implementation
- ◆ Snubber program
- ◆ New fuel receipt/handling




System Engineering Enhancements

- ◆ **AOV program**
- ◆ **Natural work teams (e.g., lubrication control program, in-service testing, reliability centered maintenance)**
- ◆ **Thermal performance improvements**
- ◆ **Reactivity management self-assessment**




System Engineering Areas for Improvement

- ◆ **Proactive engineering**
- ◆ **Enhanced cross-departmental communication in identifying and resolving plant problems**




Design Engineering Strengths

- ◆ **Aggressive response to emergent issues, e.g.**
 - **Vessel internals cracking**
 - **Valve pressure locking**
 - **Rosemount transmitter failures**
 - **ECCS suction strainer blockage**
- ◆ **Elimination of lightning induced scrams**
- ◆ **Flow accelerated corrosion program**




Design Engineering Strengths

- ◆ **Design basis documentation**
- ◆ **Routine use of probabilistic safety assessment, e.g.**
 - **RF07 schedule review**
 - **Core offload analysis**
 - **Real time risk monitor**
 - **PSA training**



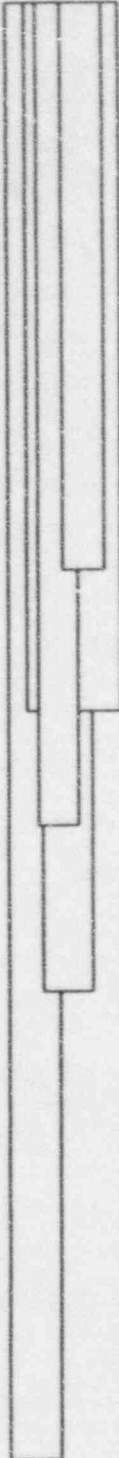
Design Engineering Enhancements

- ◆ **Source term reduction**
- ◆ **Graded quality assurance**
- ◆ **Advanced reactor source term pilot**
- ◆ **Risk-based IST pilot**
- ◆ **Expanded self-assessment activities**



Design Engineering Areas for Improvement

- ◆ **Shared resources/virtual multi-unit concept**
- ◆ **Graded engineering change process**



Plant Support

***Joel Dimmette,
Manager, Operations***


***Dan Pace
General Manager, Operations***

***Mike Meisner
Director, Nuclear Safety & Regulatory Affairs***



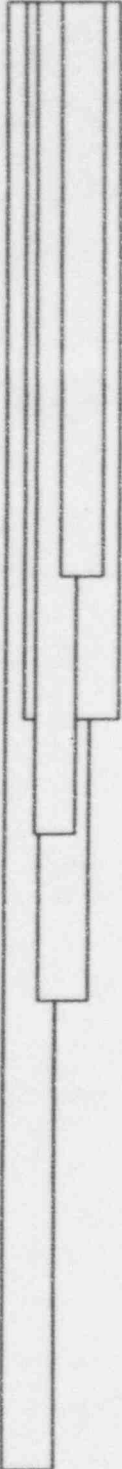
Plant Support

- ◆ **HP/Chemistry**
- ◆ **Security/Fitness for Duty**
- ◆ **Emergency Preparedness**
- ◆ **Quality Programs**
- ◆ **Nuclear Safety & Regulatory Affairs**




HP/Chemistry Strengths & Enhancements

- ◆ Optimum water chemistry initiatives
- ◆ Dose reduction, e.g.
 - Hydrolancing in high traffic areas
 - Steam leak tracking
 - Surrogate tours
 - Improved radwaste processing
- ◆ Reduced methane production




HP/Chemistry Areas for Improvement

- ◆ Tritium effluent reduction
- ◆ Labeling/tagging radioactive materials
- ◆ Eating/chewing in RCA




Emergency Preparedness Strengths & Enhancements

- ◆ **Quarterly drills**
- ◆ **Table-top drills**
- ◆ **Facilities and equipment upgrades**
- ◆ **Self assessment**




Emergency Preparedness Areas for Improvement

- ◆ **Communications between emergency facilities**
- ◆ **Controlling/evaluating exercises and drills**




Security Strengths & Enhancements

- ◆ **Safeguards information**
- ◆ **Vital island concept**
- ◆ **Biometric hand readers**
- ◆ **Fire arms training system**
- ◆ **Land vehicle barrier installation**




Security Areas for Improvement

- ◆ Establishment of standard security operating practices across EOI
- ◆ Single EOI security plan




Quality Programs Strengths & Enhancements

- ◆ Use of experienced personnel
- ◆ Audit/monitoring programs
- ◆ Performance data system
- ◆ Real time trend detection
- ◆ Performance-based audit scheduling program



Quality Programs Areas for Improvement

- ◆ Performance data system enhancements
- ◆ Single condition reporting document
- ◆ Corrective action oversight
- ◆ Company standardization of trending

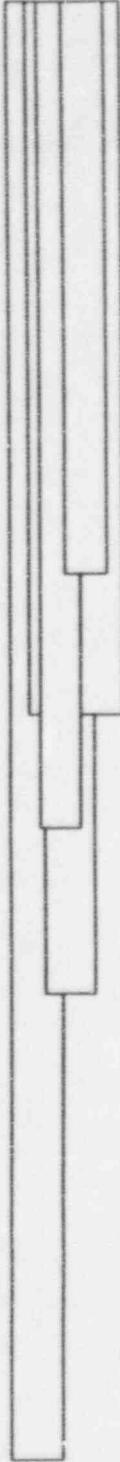


Nuclear Safety & Regulatory Affairs Strengths & Enhancements

- ◆ **Industry leader in technically sound, innovative approaches to regulatory requirements, e.g.**
 - **Appendix J exemption/rulemaking**
 - **ASME 10 year update (50.55a)**
 - **Graded QA**
 - **Improved Tech Specs**


- ◆ **Led EOI-wide operating experience process improvements**

- ◆ **ISEG focus on issues important to safety (e.g., shutdown risk management, suppression pool debris, SDC losses)**



Nuclear Safety & Regulatory Affairs Areas for Improvement

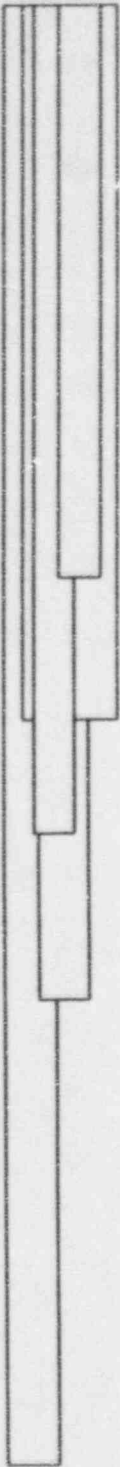
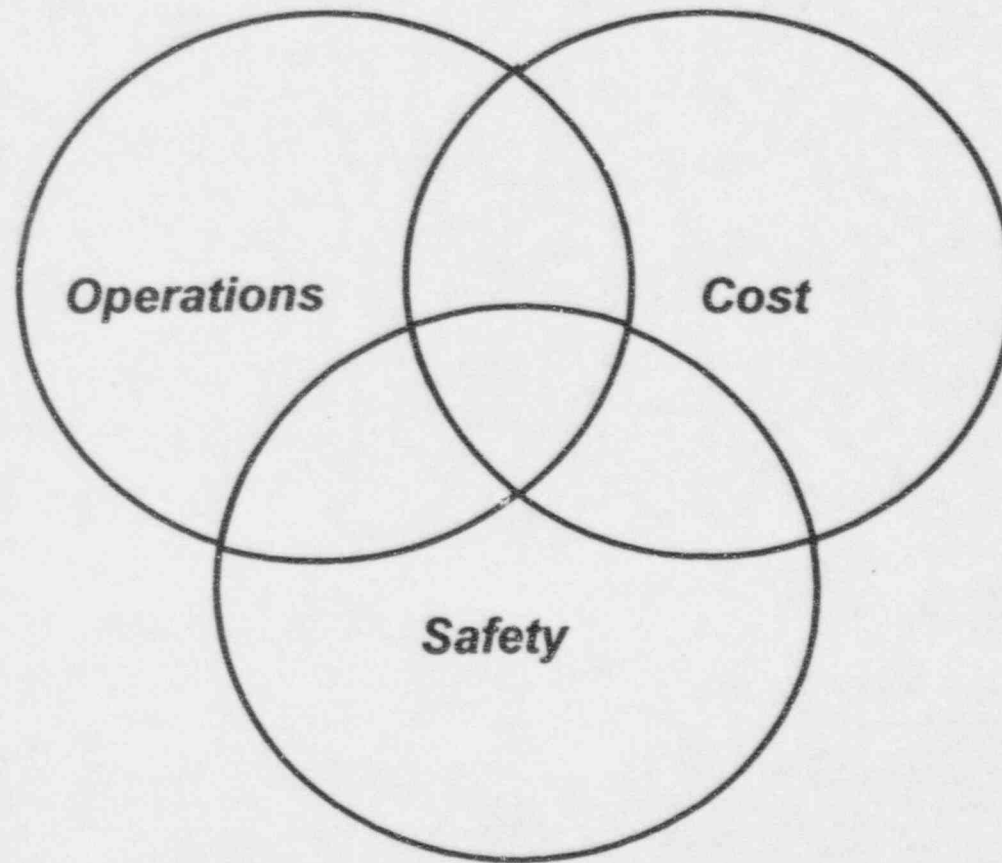
- ◆ **Development of an integrated risk management program**
- ◆ **Transition to Region IV**
- ◆ **Disseminating regulatory interaction approach to other EOI sites**
- ◆ **Continue to maintain/restore balance between safety benefit and cost**




Summary

Randy Hutchinson
Vice President, Operations

Balanced Approach to Nuclear Performance





Safety Performance Critical Elements

- ◆ **Strong safety culture**
 - **Management leads by example**
 - **Critical self-assessments are routine**
 - **Problem identification is rewarded**
 - **Strong corrective action program**

- ◆ **Technical competence - ability and willingness to quantify safety margin**

- ◆ **Open communications**

Summary

- ◆ Like the previous SALP period's problem with personnel error rate, the current SALP period has a performance anomaly - scram rate
- ◆ Nonetheless, each functional area has enjoyed strong performance during this SALP period
- ◆ While areas for improvement exist, we can confidently conclude that performance during this SALP period has equaled or exceeded the previous SALP period