



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

JUN 27 2001

Jerry Yelverton, Chief Executive Officer
Entergy Services, Inc.
P.O. Box 31995
Jackson, Mississippi 39286-1995

SUBJECT: NRC/ENTERGY OPERATIONS, INC. MANAGEMENT MEETING


Dear Mr. Yelverton:

This refers to our meeting conducted at your Echelon One Auditorium in Jackson, Mississippi, on June 13, 2001. At this meeting, NRC and your management staff discussed the individual performance of your facilities over the past year. In addition, we discussed our perspectives of your performance, including issues specific to the Office of Nuclear Reactor Regulation and Region IV.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.html> (the Public Electronic Reading Room).

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

Sincerely,


Ken E. Brockman, Director
Division of Reactor Projects

Dockets:
ANO: 50-313; 50-368
GG: 50-416
RBS: 50-458
WAT: 50-382

Licenses:
ANO: DPR-51; NPF-6
GG: NPF-29
RBS: NPF-47
WAT: NPF-38

Entergy Operations, Inc.

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Enclosures:

1. Attendance List
2. Presentation Slides

cc:

Craig G. Anderson, Vice President,
Operations
Arkansas Nuclear One
Entergy Operations, Inc.
1448 S.R. 333
Russellville, Arkansas 72801-0967

William A. Eaton, Vice President
Operations - Grand Gulf Nuclear Station
Entergy Operations, Inc.
P.O. Box 756
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Randal K. Edington, Vice President - Operations
River Bend Station
Entergy Operations, Inc.
P.O. Box 220
St. Francisville, Louisiana 70775

John T. Herron
Vice President Operations
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Executive Vice President
& Chief Operating Officer
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Vice President
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Entergy Operations, Inc.

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Pope County Courthouse
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Winston & Strawn
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Washington, DC 20005-3502

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Arkansas Department of Health
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Office of the Governor
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Jackson, Mississippi 39201

Mike Moore, Attorney General
Frank Spencer, Asst. Attorney General
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Jackson, Mississippi 39225

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State Health Officer
State Board of Health
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Jackson, Mississippi 39205

Robert W. Goff, Program Director
Division of Radiological Health
Mississippi Dept. of Health
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General Manager
Plant Operations
River Bend Station
Entergy Operations, Inc.
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St. Francisville, Louisiana 70775

Director - Nuclear Safety
River Bend Station
Entergy Operations, Inc.
P.O. Box 220
St. Francisville, Louisiana 70775

Entergy Operations, Inc.

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Manager - Licensing
River Bend Station
Entergy Operations, Inc.
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St. Francisville, Louisiana 70775

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Baton Rouge, Louisiana 70806

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West Feliciana Parish Police Jury
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St. Francisville, Louisiana 70775

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and State Liaison Officer
Department of Environmental Quality
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Manager - Licensing Manager
Waterford 3 SES
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Chairman
Louisiana Public Service Commission
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Regulatory Affairs
Waterford 3 SES
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Killona, Louisiana 70066-0751

Entergy Operations, Inc.

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Parish President
St. Charles Parish
P.O. Box 302
Hahnville, Louisiana 70057

Adrienne Smith
MS: MECH-414
1340 Echelon Parkway
Jackson, MS 39213

Electronic distribution from ADAMS by RIV:

Regional Administrator (**EWM**)

DRP Director (**KEB**)

DRS Director (**ATH**)

Senior Resident Inspectors (**RLB3, TLH4, PJA, TRF**)

DRP Branch Chiefs (**LJS, DNG, WDJ, WBJ**)

Senior Project Engineers (**ATG, RAK1, GAP**)

Chief, DRP/TSS (**PHH**)

B. Henderson, PAO (**BWH**)

C. Hackney, RSLO (**CAH**)

C. Gordon (**CJG**)

DRS Branch Chiefs (**GMG, DAP, CSM**)

W. Travers, EDO (**WDT**)

S. Richards, NRR Project Director (**SAR**)

R. Gramm, Chief, Section 1, NRR/DLPM (**RAG**)

J. Zwolinski, DLPM, NRR (**JAZ**)

W. Reckley, NRR Project Manager (**WDR**)

T. Alexion, NRR Project Manager (**TWA**)

P. Sekerak, NRR Project Manager (**PXS1**)

R. Moody, NRR Project Manager (**REM2**)

N. Kalyanam, NRR Project Manager (**NXK**)

R:_ANO\2001\AN6-13-01MS-DRP-All Entergy.wpd

R:_GG\2001\GG6-13-01MS-DRP-All Entergy.wpd

R:_RB\2001\RB6-13-01MS-DRP-All Entergy.wpd

R:_WAT\2001\WT6-13-01MS-DRP-All Entergy.wpd

RIV:C:DRP/B	D:DRP			
WDJohnson;df	KEBrockman			
6/27/01	6/27/01			

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

ENCLOSURE 1
ATTENDANCE LIST

NRC/EOI
SENIOR MANAGEMENT MEETING

June 13, 2001
7:30 a.m. - 2:30 p.m.
Echelon One Auditorium; Jackson, MS

ATTENDANCE LIST

Entergy Operations, Inc.

Jerry Yelverton, CEO, ESI
John McGaha, President, EOI
Gary Taylor, COO, EOI
Randy Hutchinson, SR VP, ENI
John Herron, VP, Operations, W-3
Bill Eaton, VP, Operations, GGNS
Randy Edington, VP, Operations, RBS
Craig Anderson, VP, Operations, ANO
Paul Hinnenkamp, VP, Operations Support
Bill Campbell, VP, Engineering
Bob Bement, General Manager, ANO
Joe Blount, General Attorney - Generation
Greg Pierce, Director, Oversight, Corporate
Mike Krupa, Director, NS&L, Corporate
Jerry Roberts, Director, NSA, GGNS
Rick King, Director, NSA, RBS
Alan Harris, Acting Director, NSA, W-3
Joe Leavines, Manager, Licensing, RBS
Dale James, Manager, Licensing, ANO
Drew Bottemiller, Manager, Licensing, GGNS
Adrienne Smith, NS&L, Corporate
Les England, NS&L, Corporate
John Kelly, Director, RA&W, ENI
Dave Madere, Sr. Project Manager, W-3
Ted Leonard, EOI General Manager
Diane Park, EOI, Manager Communications
Ron Byrd, NS&L, Corporate
Dana Millar, NS&L, Corporate
Jerry Burford, NS&L, Corporate

U.S. Nuclear Regulatory Commission

Ellis Merschoff, Regional Administrator, Region IV
John Zwolinski, Division of Licensing Project Management, NRR
Elmo Collins, Deputy Director, Division of Reactor Projects (DRP), Region IV
David Graves, Chief, DRP/A
Bill Johnson, Chief, DRP/B
Linda Smith, Chief, DRP/D
Bill Jones, Chief, DRP/E
Russell Bywater, Senior Resident Inspector, ANO
Tim Hoeg, Senior Resident Inspector, GGNS
Michael Peck, Senior Resident Inspector, RBS
Jack Keeton, Resident Inspector, W-3
Tom Alexion, Project Manager, NRR

ENCLOSURE 2
PRESENTATION SLIDES

Entergy Operations/NRC Senior Management Meeting

June 13, 2001



MEETING AGENDA
Morning Session

7:00	Early Morning Coffee	
7:30	Welcome & Introductions	John McGaha
7:35	Recent Organization Changes	John McGaha
7:45	2000 Review of Plant Performance	Gary Taylor
8:00	Regional Issues	Ellis Merschoff
8:30	NRR Issues	John Zwolinski
9:00	Break	
9:15	ANO Performance	Craig Anderson Linda Smith, et. Al
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10:55	River Bend Performance	Randy Edington Bill Johnson, et. al.
11:45	Waterford-3 Performance	John Herron Bill Jones, et. al.
12:35	Lunch	



MEETING AGENDA
Afternoon Session

12:30	Lunch	
1:20	Engineering Issues	Bill Campbell
1:40	Corporate Support	Paul Hinnenkamp
2:00	COO Perspectives	Gary Taylor
2:20	Closing Remarks/Adjourn	Entergy/NRC



Welcome and Introductions

John McGaha
Chief Executive Officer



Goals for Today's Meeting

- ▶ Herald our successes
- ▶ Recognize our challenges
- ▶ Discuss our initiatives
- ▶ Understand each others points of view
- ▶ Look into the future
- ▶ Dialogue



MEETING AGENDA
Morning Session

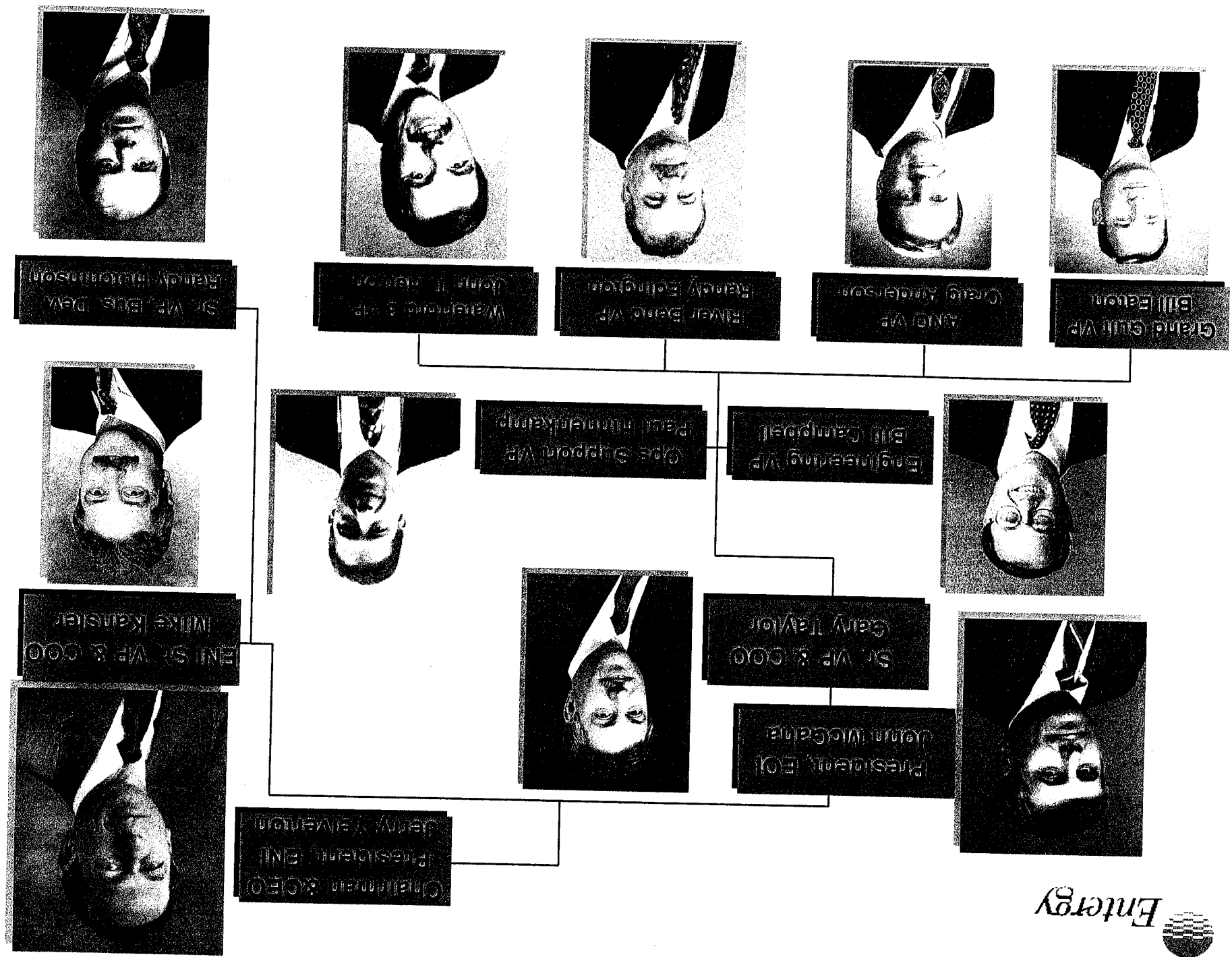
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Recent Organization Changes

John McGaha
President - EOI





Other Organization Changes

as of April 2001

- ▶ General Manager - ANO - Bob Bement
- ▶ Director Engineering - W3 - Barry Allen
- ▶ Director Security - ECH - Chris Kelley
- ▶ Director Training & Development - ECH - Don Vinci
- ▶ System Engineering Mgr. - W3 - Ron Osborne
- ▶ System Engineering Mgr. - GGNS - Harold Yeldell
- ▶ System Outage Mgr. - ECH - Keith Polson
- ▶ Outage Manager - ANO - Fred Neilsen
 - INPO reverse loanee



MEETING AGENDA Morning Session

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2000 Review of Plant Performance

Gary Taylor
Senior VP, COO - EOI



EOI Philosophy

- ▶ We operate as a virtual 5-Unit site
 - Top Decile Performance
 - leverage size and resources
 - standardize processes
 - attract and retain top nuclear talent
 - improve competitiveness of sites



Outage Highlights

- ▶ ANO-2 Mid-Cycle Outage - 26 days
- ▶ ANO-2 Steam Generator Replaced
- ▶ W-3 RFO - new site record - 34 days
- ▶ RBS RFO - 35.5 days
- ▶ ANO-1 RFO - 22 days
- ▶ GGNS RFO - 21 days



Fleet Highlights

- ▶ 89.57% Average capacity factor
- ▶ 597.7 Total man-rem exposure
- ▶ Scram rate down from 6M+3A in 1999 to 3M+1A in 2000
- ▶ SSFF down from 7 in 1999 to 3 in 2000
- ▶ All Green performance indicators



Operating Challenges

- ▶ Alloy 600 Issues
- ▶ Grid Stability
- ▶ Security



2001 and Beyond

- ▶ Power Upgrades
- ▶ Deregulation
- ▶ License Renewal
- ▶ Refueling Outages



MEETING AGENDA Morning Session

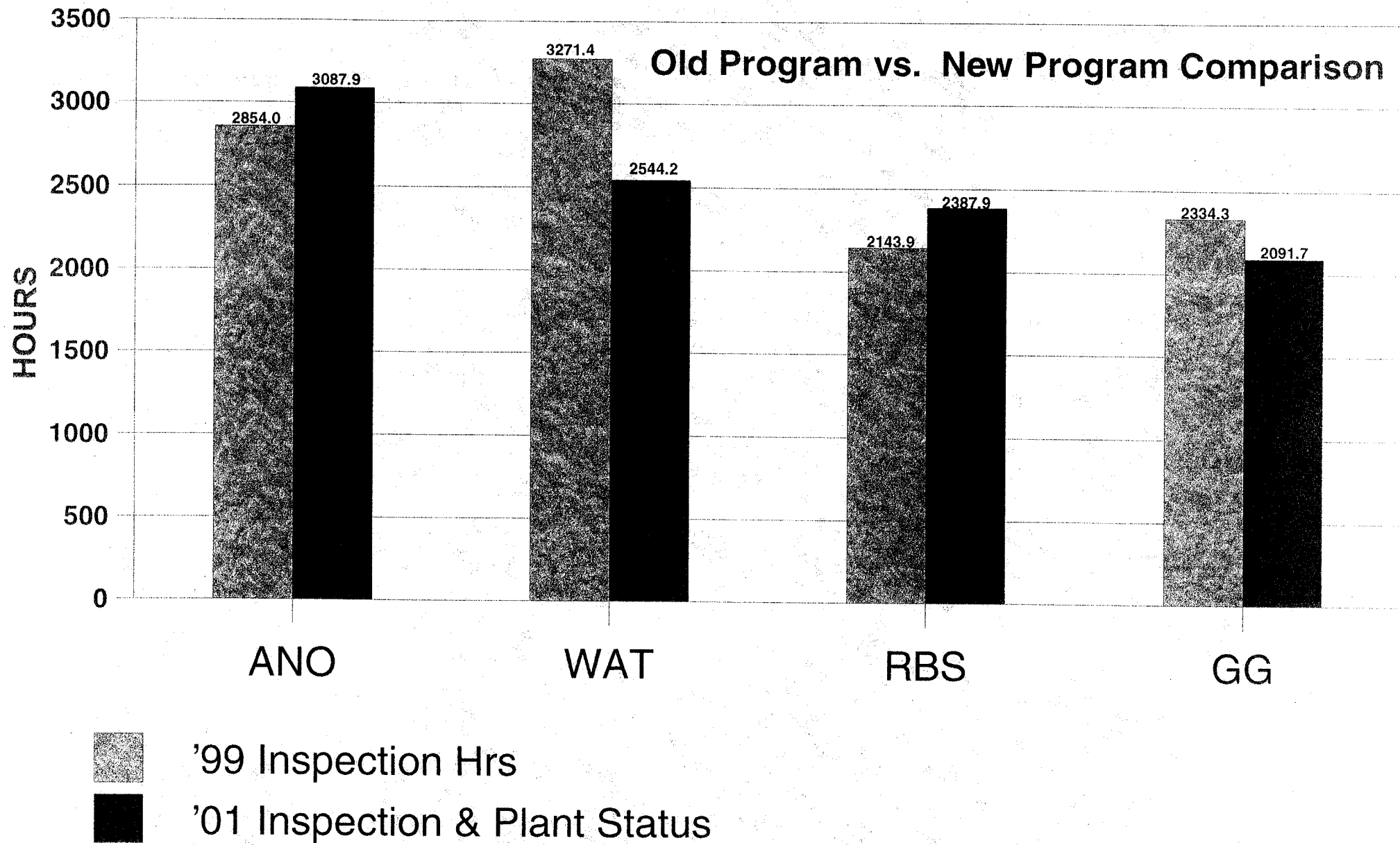
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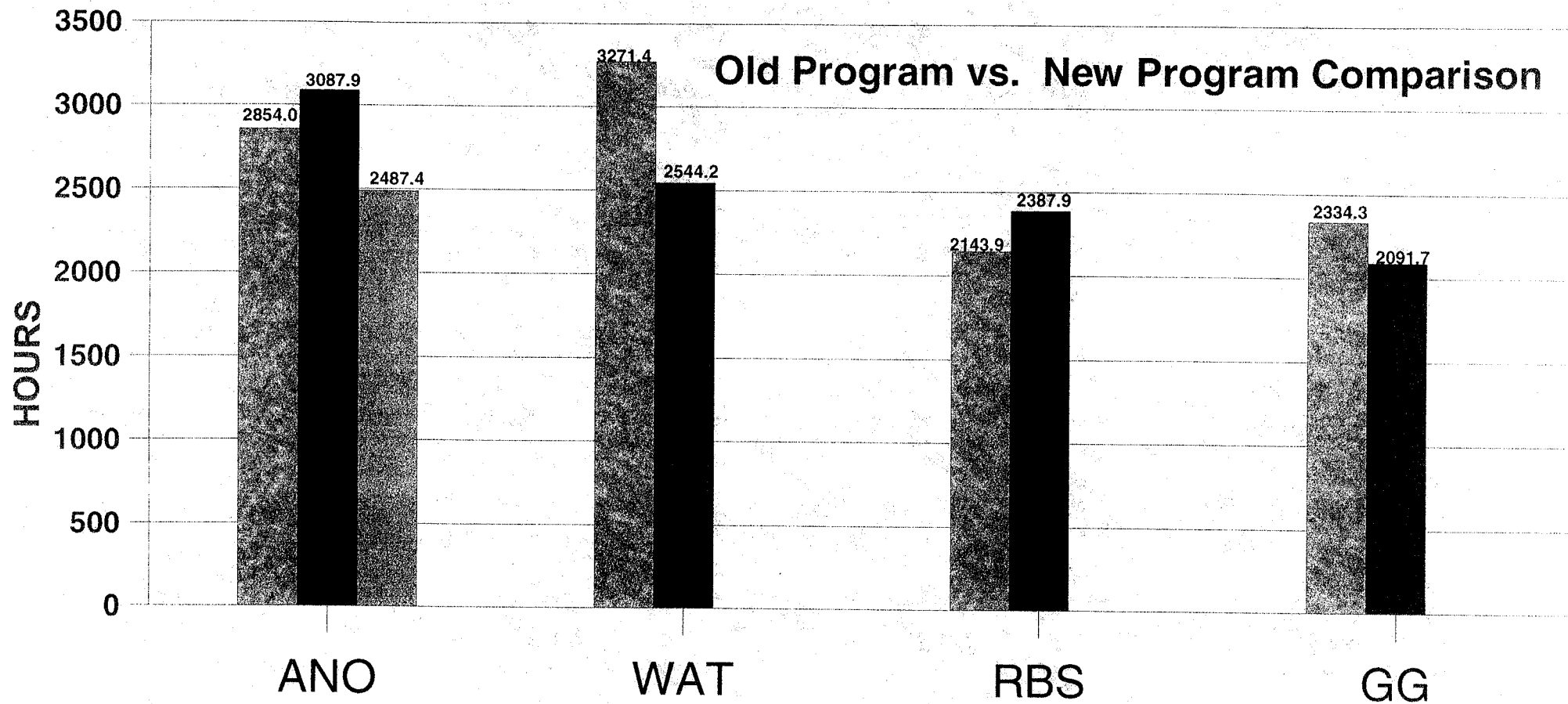


Regional Issues

Ellis Merschoff
Regional Administrator
NRC, Region IV







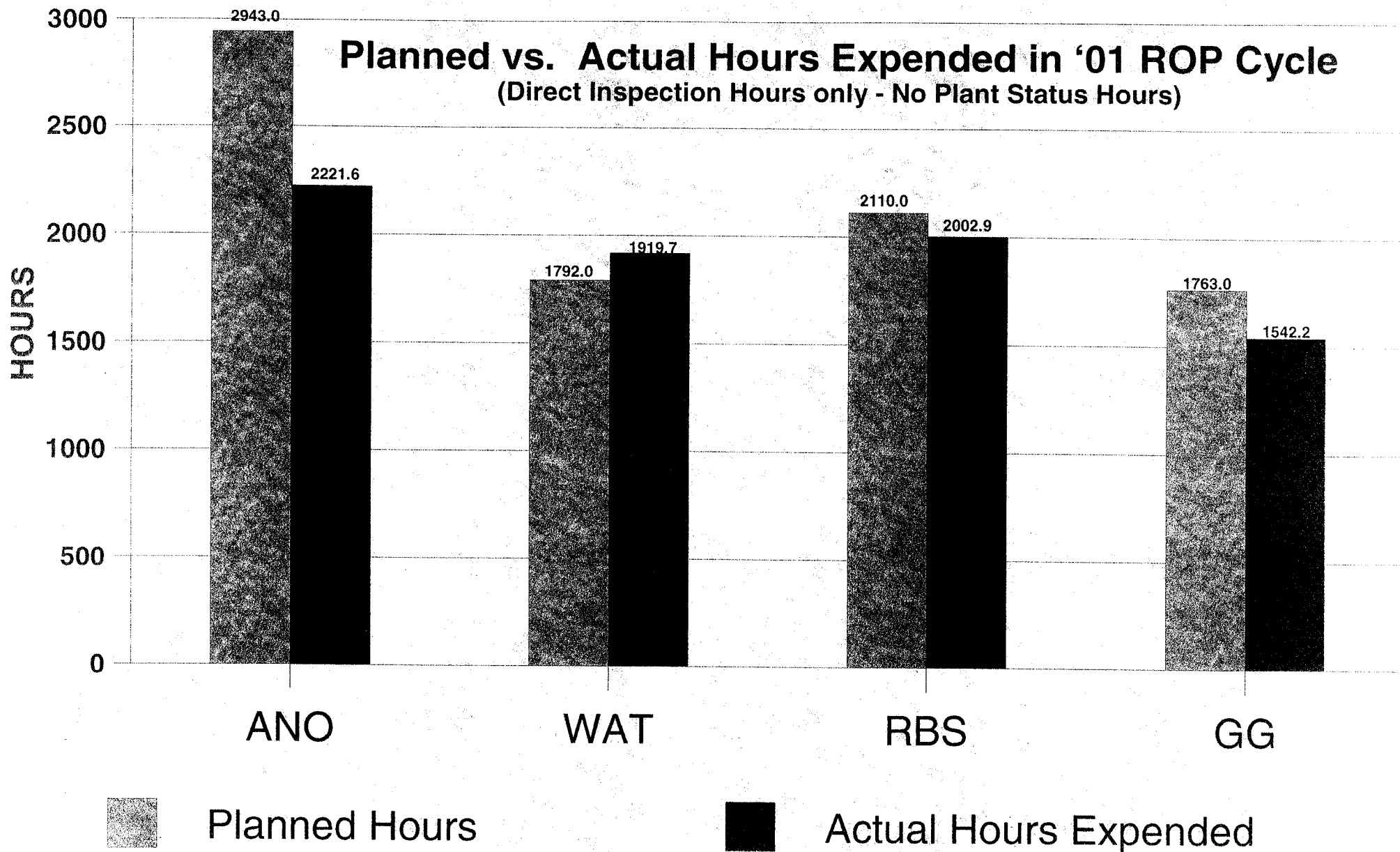
'99 Inspection Hrs



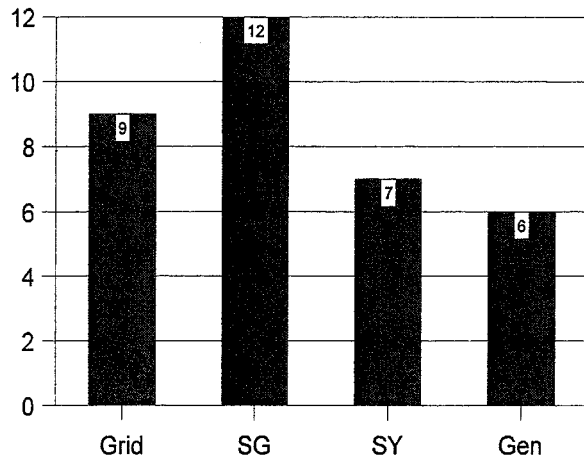
'01 Inspection & Plant Status



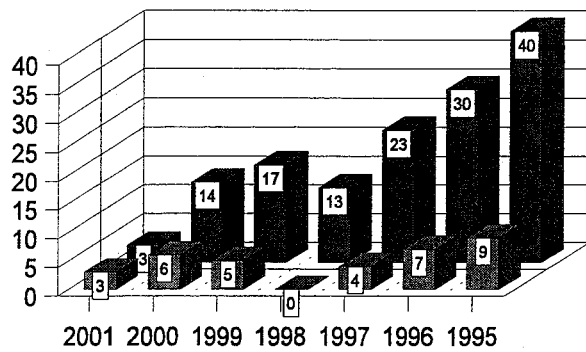
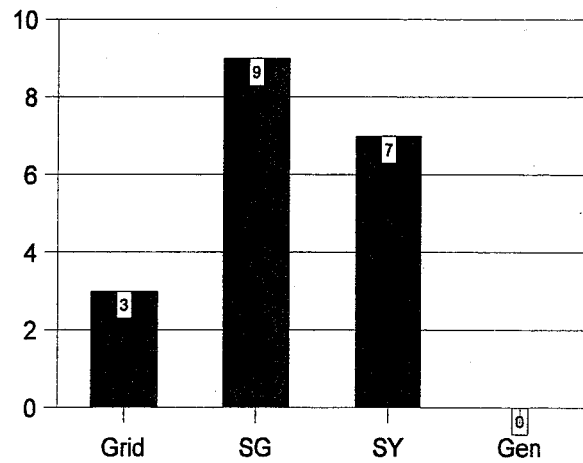
'01 Inspection w/o SGR & LR Hours



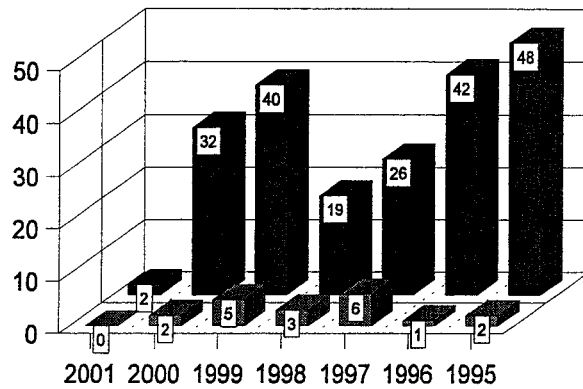
Electrical Scrams



Electrical ESFs



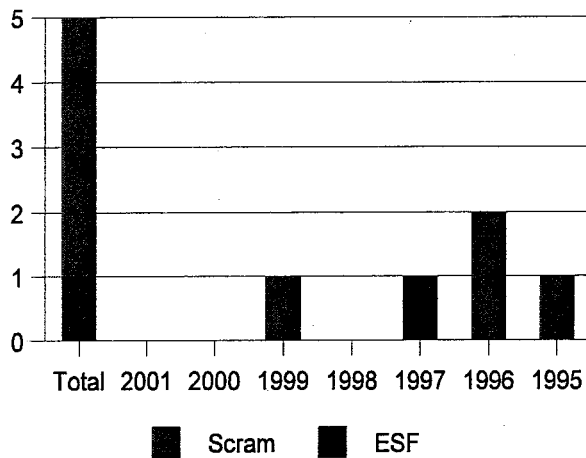
ESFs



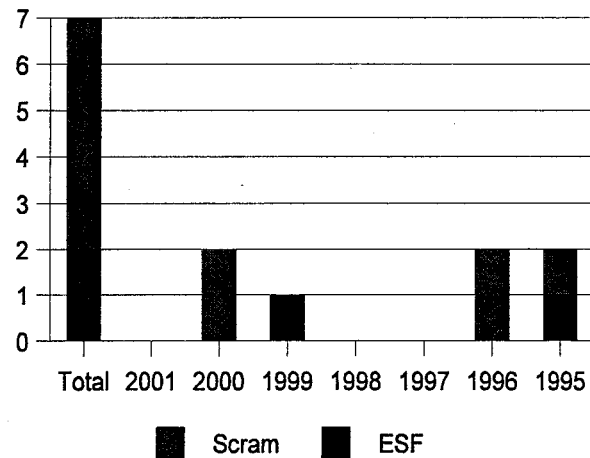
■ All ESFs (209) ■ Electrical (19)

GRID AND GENERATOR EVENTS

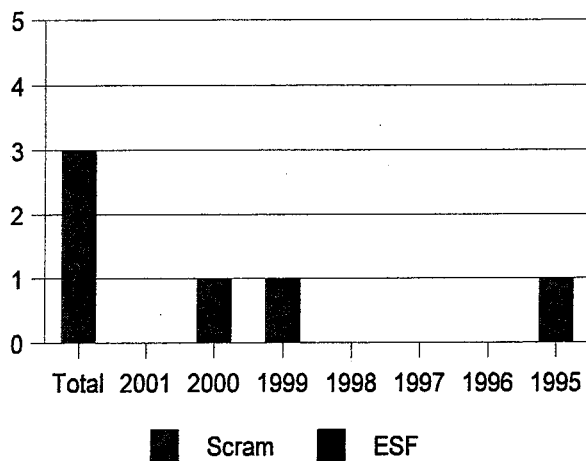
Lightning Transient



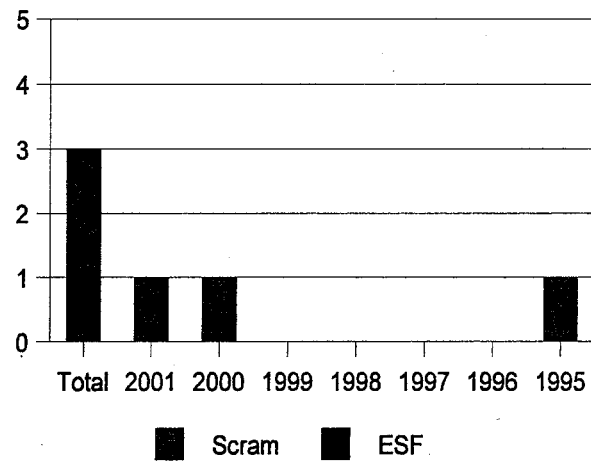
Grid Transient



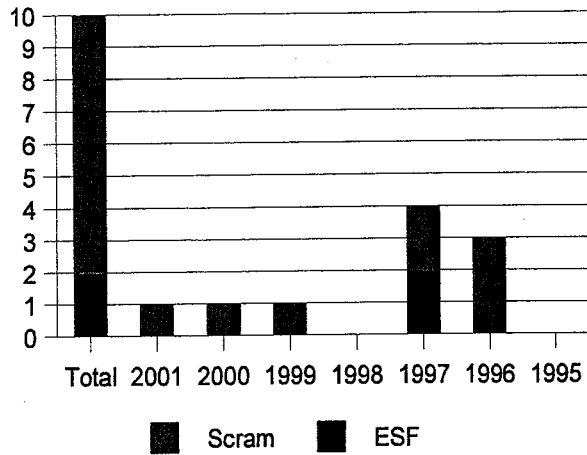
Generator Circuit



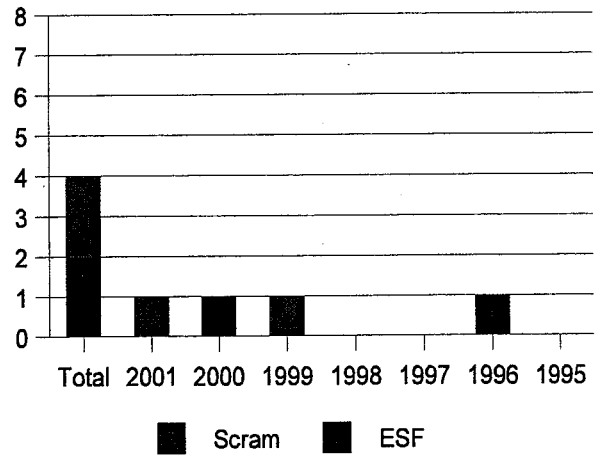
Generator Vibration



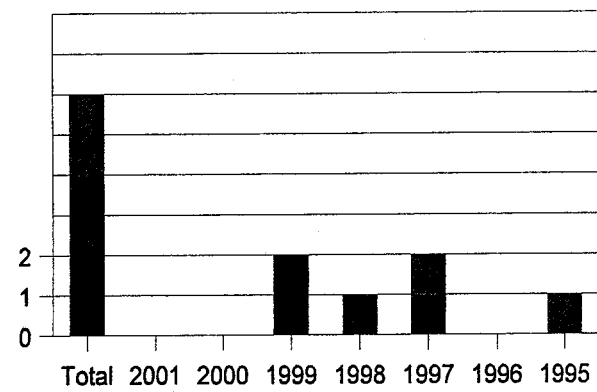
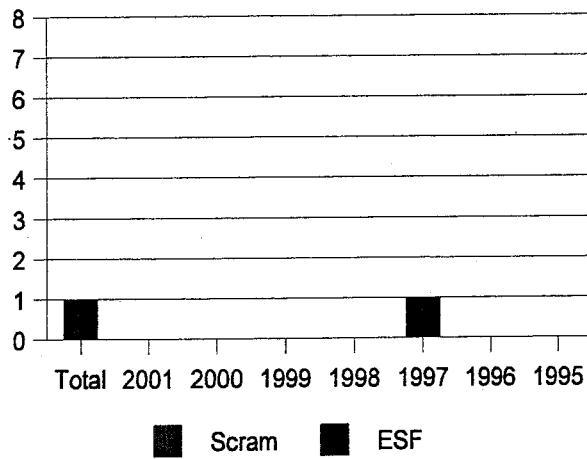
Switchgear Breaker



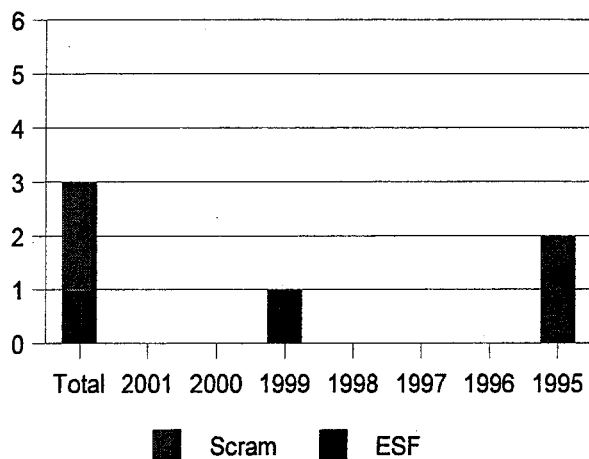
Switchgear Operation



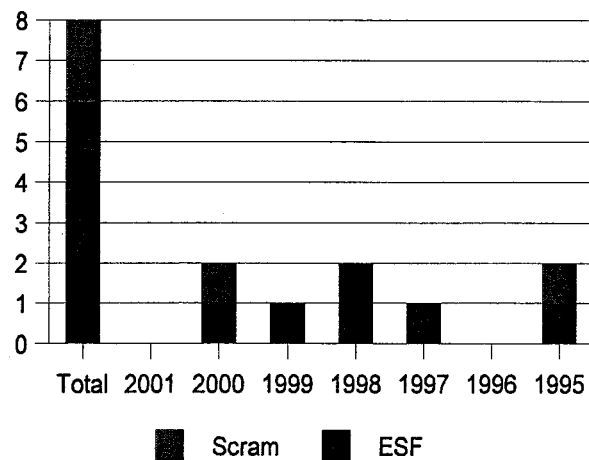
Switchgear Procedure



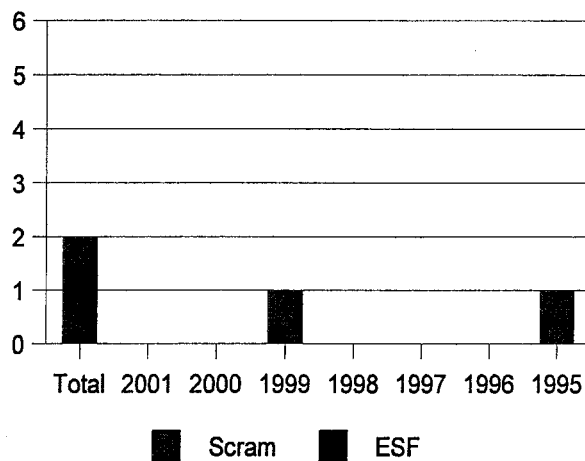
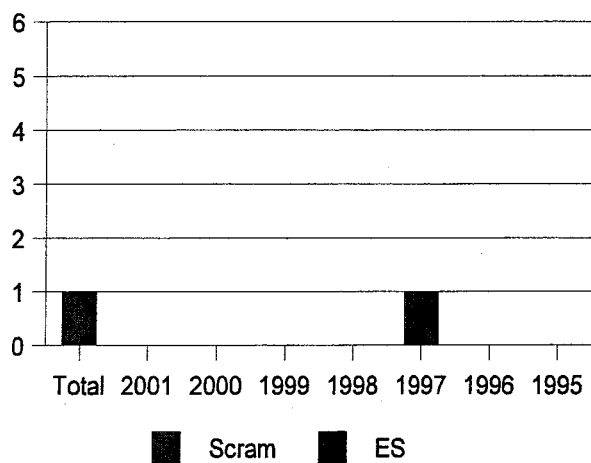
Switchyard Breaker



Switchyard Transformer

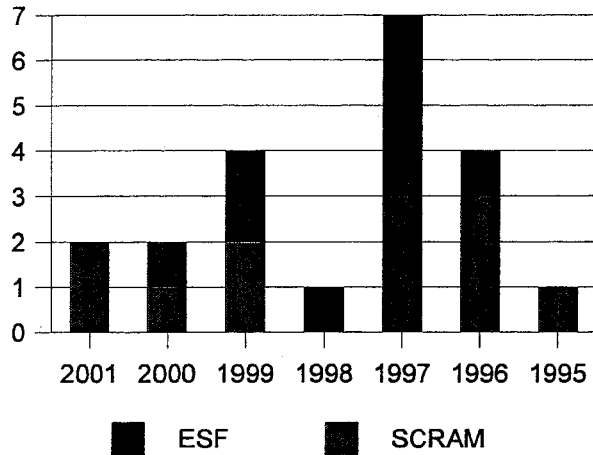


Switchyard Maintenance

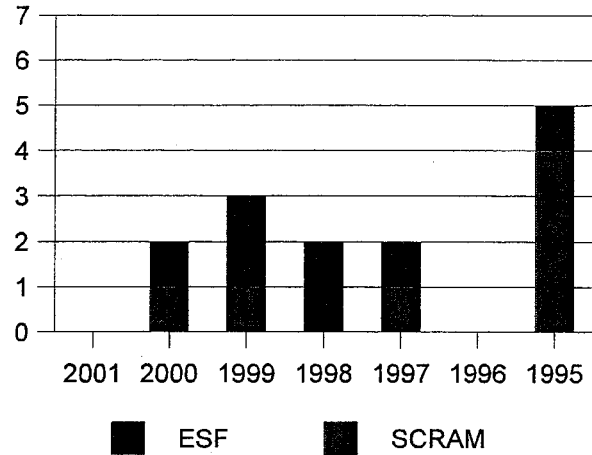


SCRAM AND ESF DATA 1995 TO FIRST QUARTER 2001

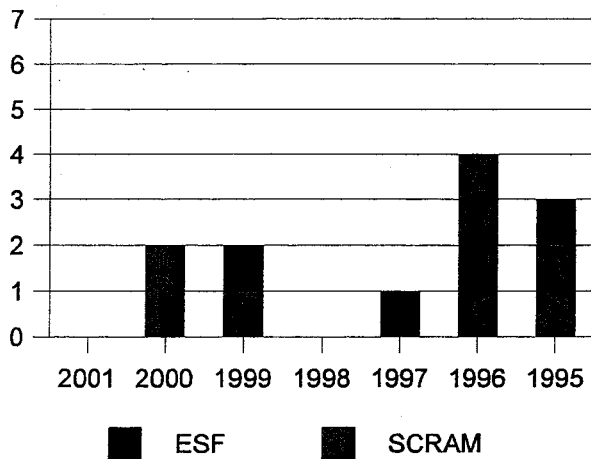
Switchgear Initiators



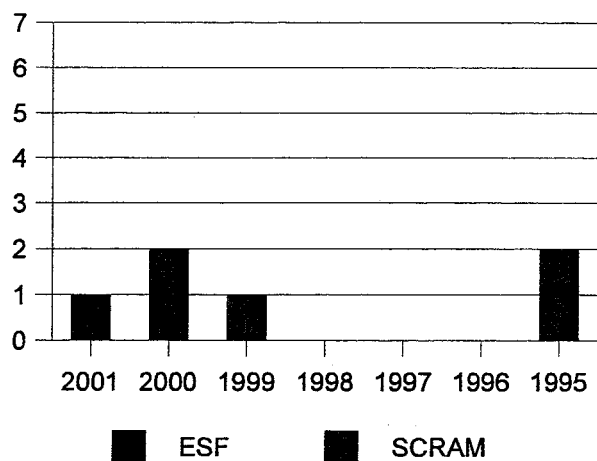
Switchyard Initiators



Grid Initiators

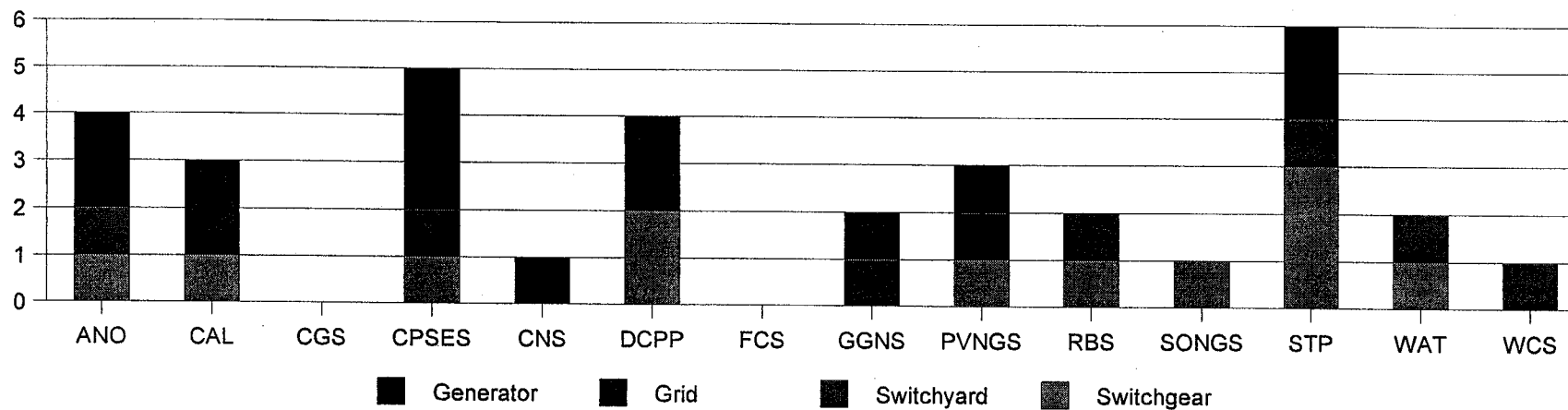


Generator Initiators

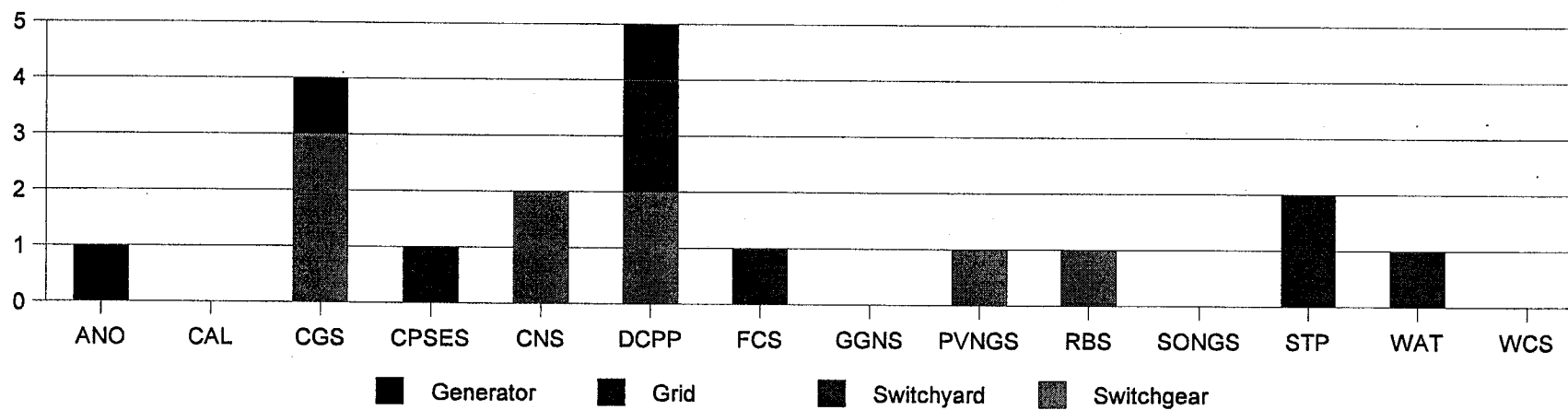


PLANT SCRAM AND ESF DATA

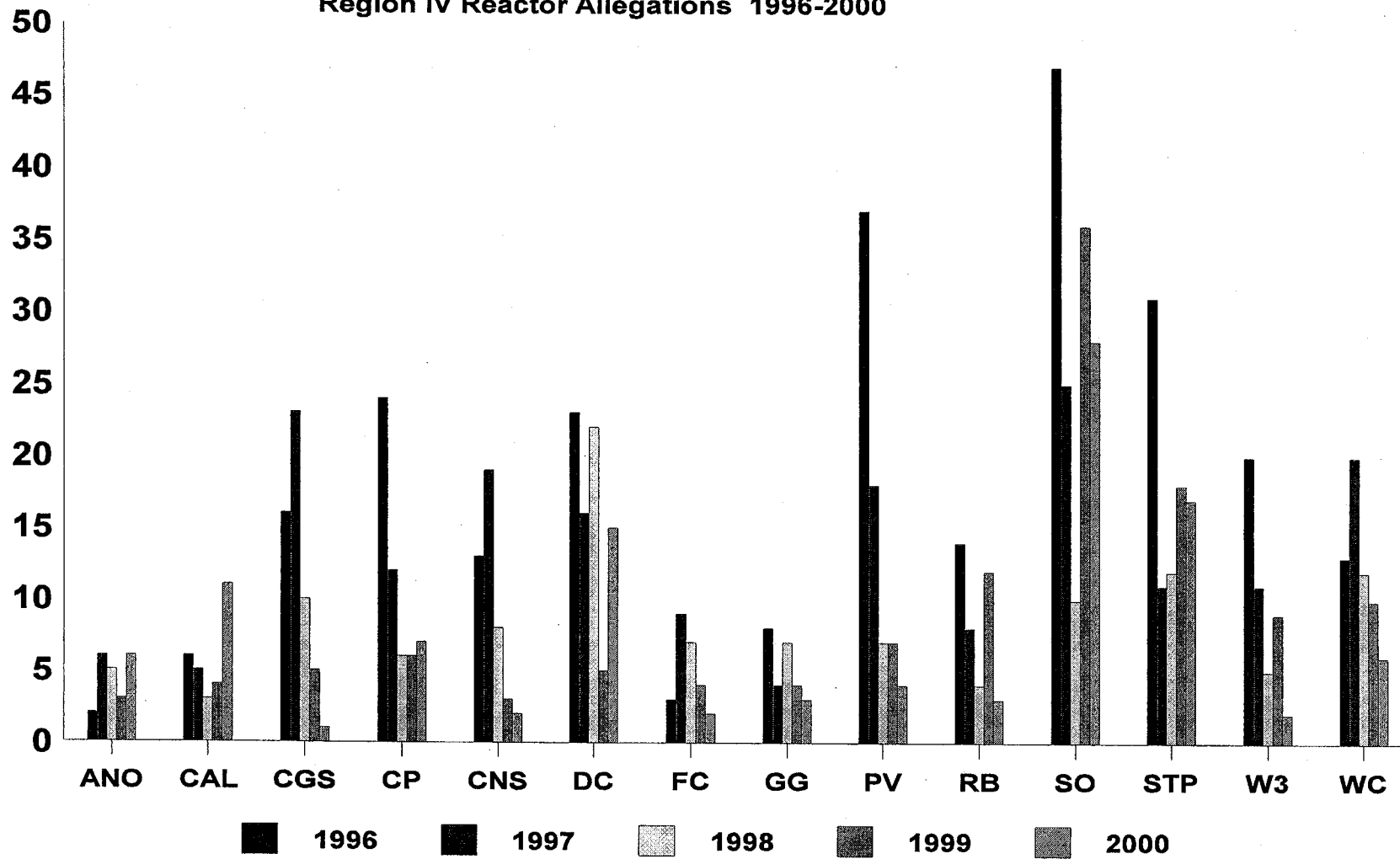
SCRAM DATA



ESF DATA



Region IV Reactor Allegations 1996-2000



**MEETING AGENDA
Morning Session**

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NRR Issues

John Zwolinski
Director
Licensing Project Manager, NRR



EOI / NRC SENIOR MANAGEMENT MEETING

NRR Issues

John A. Zwolinski
Director of Licensing Project Management
Office of Nuclear Reactor Regulation
June 13, 2001

SIGNIFICANT LICENSING ACTIONS AND ACTIVITIES

- EOI Generic - positive and looking to the future; plants in the northeast
- Plant-Specific – some brief remarks
 - ANO-1
 - ANO-2
 - Grand Gulf
 - River Bend
 - Waterford

EOI GENERIC

- Code Case N-532 (ISI Documentation) - Reliefs issued in March
- May '01 Request for Exemption – on the definition of deep-dose equivalent (DDE)
- TSs for GL 99-02 (Charcoal Testing) - All amendments approved in Dec.

ANO-1

- License Renewal
- Conversion to ISTS
- Steam generators
- Materials reliability program

ANO-2

- 7.5% Power Uprate
 - First PWR application > 5%
 - NRC staff will meet with ACRS
 - Dec. '01 schedule
- SG licensing actions and staff efforts

Grand Gulf

- Alternate Source Term (AST) – approved March '01
- Kaowool – will be replaced
- Relief request for non-Code repair on RHR piping to avoid plant shutdown – verbally approved May '01

River Bend

- Power Uprate (5%)
- Inclined Fuel Transport System (IFTS) – 2 related applications
- Who does what and why

Waterford

- Instrument uncertainties – NRC's Feb. '01 response is that while specific calculations that included graded uncertainties were accepted, the graded approach to instrument setpoints has not been generically accepted

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EOI/NRC WORKING RELATIONSHIP

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Quality of Communications

- Excellent
- Weekly licensing status calls help focus on the important issues
- Phone calls promptly returned
- How is NRC/Projects staff doing?

Quality of Applications

- RAIs usually needed only for unique or complex issues
- Responses to RAIs generally good quality
 - One round of RAI usually resolves issue
 - EOI often responds to RAI based on phone call

New/Complicated Issues, Industry Leadership

- Exemption from DDE requirements
- Kaowool Removal (Grand Gulf)
- Alternate Source Term Development (Grand Gulf)
- Continues to be ripe

EOI Corporate vs. Site-Specific Contacts

- Process works well
- Quality of communications is transparent to location of contact

Lead-Time of Applications to Support Refueling Outages

- EOI could improve in this area
- NRC needs 6-9 months lead time, depending on complexity

August 2001 EOI/NRC Licensing Workshop

- More detailed discussions of EOI/NRC working relationship reserved for workshop
- Although overall quality of EOI/NRC working relationship is good (i.e., RAI responses, communications) there are potential improvements for both sides
- Workshop requested by EOI, supported by NRC

EOI / NRC SENIOR MANAGEMENT MEETING

CONCLUSION

John A. Zwolinski
Director, Division of
Licensing Project Management

B R E A K



MEETING AGENDA Morning Session

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ANO Performance

Craig Anderson
Site Vice President, Operations
Linda Smith
NRC Region IV Branch Chief Section E



Highlights of the Last 12 Months

- ▶ Unit 2 steam generator replacement outage
- ▶ Unit 1 refueling outage
- ▶ Operator training accreditation renewal
- ▶ INPO evaluation
- ▶ Unit 1 license exams
- ▶ TIP awards



Current Plant Issues

- ▶ Significant NRC interface activities
 - Unit 1 ITS
 - Unit 1 license renewal
 - Unit 2 power uprate
- ▶ Dry fuel storage operation continuing
- ▶ Inconel-600



Focus on the Future

- ▶ Learning Organization
 - Benchmarking and Self-Assessments
 - Define excellence through benchmarking
 - Assess organization against newly defined excellence
 - Quarterly department focus assessments
 - Site review for cross-cutting issues
- ▶ Equipment Reliability
 - Equipment Issues
 - Initiatives
 - Craft ownership
 - Equipment reliability team



Focus on the Future

► Human Performance

- Coaching
- Identifying human performance traps
- Identifying human performance tools
- Human Performance Simulator
- Corrective action program improvements
 - Condition report threshold reduced
 - Improved root cause evaluations



MEETING AGENDA Morning Session

7:00	Early Morning Coffee	
7:30	Welcome & Introductions	John McGaha
7:35	Recent Organization Changes	John McGaha
7:45	2000 Review of Plant Performance	Gary Taylor
8:00	Regional Issues	Ellis Merschoff
8:30	NRR Issues	John Zwolinski
9:00	Break	
9:15	ANO Performance	Craig Anderson Linda Smith, et. al
10:05	Grand Gulf Performance	Bill Eaton David Graves, et. al.
10:55	River Bend Performance	Randy Edington Bill Johnson, et. al.
11:45	Waterford-3 Performance	John Herron Bill Jones, et. al.
12:35	Lunch	



GGNS Performance

Bill Eaton
Site Vice President, Operations

David Graves
NRC Region IV Branch Chief Section A
(Acting)



Highlights of the Last 12 Months

- ▶ ALARA
- ▶ Personnel Safety
- ▶ Workload Management/Backlog
- ▶ Outage Planning and Preparations
- ▶ Organizational Alignment
- ▶ Performance Indicators



Current Plant Issues

- ▶ Human Performance
- ▶ Equipment Reliability
- ▶ Operations Training/Pipeline
- ▶ Fire Protection/Kaowool



Focus on the Future

- ▶ Personnel Development
- ▶ Self Assessments/Benchmarking
- ▶ Equipment Reliability
- ▶ Generation Improvement



**MEETING AGENDA
Morning Session**

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RBS Performance

Randy Edington
Site Vice President, Operations
Bill Johnson
NRC Region IV Branch Chief Section B



Highlights of the Last 12 Months

- ▶ Human Performance
 - Radworker Practices
 - Industrial Safety Performance
- ▶ Material Condition
- ▶ Corrective Action Program
- ▶ Flow Only Power Uprate



Highlights of the Last 12 Months

- ▶ Focus on Learning
 - Operational Knowledge
 - Ten Operator Licenses Issued
 - Technical Training Program Accreditation Renewal
 - University of Maryland Program
 - 27 Degrees
- ▶ Backlogs to Managed Inventories



Current Plant Issues

- ▶ Continued Emphasis:
 - Human Performance
 - Corrective Action
- ▶ Equipment Reliability
- ▶ Refuel Outage 10 Preparations
- ▶ Hurricane Preparations
- ▶ License Amendments
- ▶ Power Uprate - Pressure Increase



Focus on the Future

- ▶ Voluntary Protection Program
- ▶ Dry Fuel Storage
- ▶ Chemistry
 - Hydrogen Water Chemistry
 - Condensate Filter Modification
- ▶ Redundant Inverter Modification
- ▶ Appendix K Power Uprate
- ▶ Continued Focus on Achievement Anchors



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WSES Performance

John Herron
Site Vice President, Operations
Bill Jones
NRC Region IV Branch Chief Section D



Highlights of the Last Year

- ▶ June planned outage
- ▶ RFO 10 - record 34 day duration
 - Chemically cleaned S/Gs
 - Repaired RCP 2B
 - Main transformer "B" internal inspection
- ▶ All 6 RO candidates passed the NRC exam
- ▶ Radioactive effluent controls resulted in a 70% reduction in released radioactivity



Highlights of This Year

- ▶ Closure of Security confirmatory order
- ▶ Emphasis on equipment reliability
 - Equipment Reliability Team
 - Summer equipment performance
 - No component failures on equipment in the predictive maintenance program
 - Chiller performance improvements
- ▶ Currently > 6 million worker-hrs without a lost time accident



Highlights of This Year

- ▶ Implementation of Revised Reactor Oversight Process
 - NRC Performance Indicators all Green
- ▶ Improvement in Engineering
 - SSD&P - No findings
 - 50.59 - No findings
- ▶ Unauthorized individual apprehended in the Protected Area
- ▶ On-line Emergency Diesel Generator outages



Current Plant Issues

- ▶ Avoiding summer reliability threats
- ▶ Hurricane Preparedness
- ▶ Reduce backlogs for better focus on today's issues
 - Corrective Maintenance
 - Engineering Requests
 - Corrective Action
 - Self Assessment Actions
- ▶ Dose on Target for <10 REM in 2001
- ▶ OSHA application for Voluntary Protection Program



Focus on the Future

► 13 Site Focus Areas

- Work Control
- Corrective Action Program
- Equipment Reliability
- Human Performance Improvements
- Self Assessments
- System Engineering Focus

► Site and Corporate Standardization

► INPO E&A in October 2001

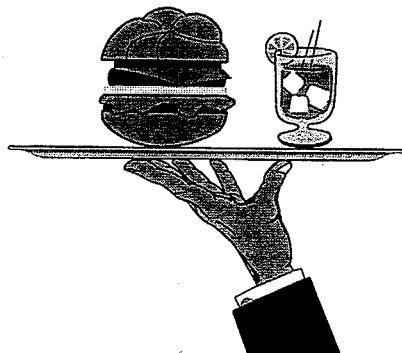
► Ops Training Accreditation - November 2001

► E-Plan Exercise - December 2001

► Outage Preparations - Spring 2002



LUNCH



MEETING AGENDA
Afternoon Session

12:35	Lunch	
1:20	Engineering Issues	Bill Campbell
1:40	Corporate Support	Paul Hinnenkamp
2:00	COO Perspectives	Gary Taylor
2:20	Closing Remarks/Adjourn	Entergy/NRC



Engineering Issues

Bill Campbell
Vice President, Engineering



Equipment Reliability

- ▶ Focus on resolving known issues
 - summer reliability plans
 - Top Ten site issues lists
- ▶ Integrated Plan
 - INPO AP-913
 - culture
 - fix known problems
 - condition based maintenance
 - learn from experience of others



Highlights

- ▶ Support of ANO2 SGR and containment reanalysis
- ▶ Implementation of River Bend flow-only uprate
- ▶ Resolution of ANO1 CRDM nozzle crack



Challenges

- ▶ Equipment Reliability
- ▶ ANO2 Power Uprate Implementation
- ▶ Appendix K Uprate Submittals
- ▶ Kaowool and Hemyc Fire Barrier Issues
- ▶ Closure of Design Basis Open Items
- ▶ Improved Project Management



Focus on the Future

- ▶ ANO1 SGR and Uprate Potential
- ▶ Extended Uprates for W3 and GGNS
- ▶ Appendix K Uprates for ANO2 and ANO1
- ▶ Materials Issues - Alloy 600
- ▶ License Renewal
- ▶ Organizational Development



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Corporate Support

Paul Hinnenkamp
Vice President, Operations Support



Support Function

- ▶ Information Technology
- ▶ Licensing & Corrective Action
- ▶ Materials, Purchasing & Contracts
- ▶ Nuclear Support
- ▶ Oversight - QA
- ▶ Security
- ▶ System Outage Coordination



Highlights

- ▶ Centralized OE Process
- ▶ RBS/W3 Force on Force Exercises
- ▶ Upgrade Perimeter Intrusion Detection (PIDS) and Enhanced Defensive Strategy.
- ▶ 15 Burden Reduction Items approved in the last 12 months



Challenges

- ▶ Revisions to 10 CFR Part 73 and Part 26
- ▶ Escalation of Adversary Characteristics
- ▶ Enhanced Defensive Strategy
- ▶ Exigent Relief Request for RHR Pipe Leak (non-Code repair)



Focus on the Future

- ▶ Lessons Learned from RBS and W3
 - Implement NEI 99-07 at ANO & GGNS as SPA pilot plants
- ▶ Continue work with NRR Staff to provide stakeholder input to rulemaking
- ▶ Burden Reduction Submittals
 - 14 submitted since January
 - 22 More scheduled for this year



Outage Milestones

- ▶ Cycle + 2 Months - Freeze Outage Mod scope and Special Projects
- ▶ 13 Months - Identify Outage Scope
- ▶ 12 Months - Identify Licensing Changes
- ▶ 12 Months - Identify Regulatory Requirements
- ▶ 8 Months - Freeze Outage Scope
- ▶ 8 Months - Submit License Changes



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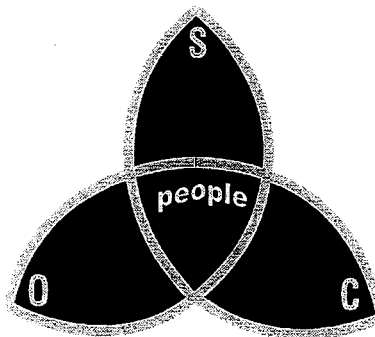
COO Perspectives

Gary Taylor
Senior VP, COO - EOI



Four Nuclear Cornerstones

- ▶ Safety
- ▶ Operation
- ▶ Cost
- ▶ People



Five Achievement Anchors

- ▶ Equipment Performance/Reliability - W. Campbell
- ▶ Learning Organization - G. Taylor
- ▶ Human Performance - J. McGaha
- ▶ Developing People - J. McGaha
- ▶ Outage Performance - J. Herron



Four Nuclear Cornerstones

+

Five Achievement Anchors

=

2001 The Best Year Ever !



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