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SUBJECT: Forwards indicators issued in Mar 1998 for St Lucie Plant, C Units 1 & 2. Indicators were discussed at 980306 plant mgt							
	review meeting.					-	А
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Florida Power & Light Company, 6351 S. Ocean Drive, Jensen Beach, FL 34957

March 17, 1998

L-98-074 10 CFR 50.4

U. S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

RE: St. Lucie Units 1 and 2 Docket Nos. 50-335 and 50-389 Management_Review Meeting - March 1998

During a November 1995 meeting with the NRC, Florida Power and Light Company (FPL) reviewed the progress made in completing activities outlined in the St. Lucie Plan to Improve Operational Performance. FPL stated that meetings to review performance would be held monthly. In the November meeting, FPL committed to provide the monthly review materials to the NRC.

Enclosed is a copy of the indicators issued in March 1998 for St. Lucie Plant. The indicators were discussed at the March 6, 1998, FPL management review meeting at St. Lucie.

We look forward to NRC feedback. If you have any questions on this material, please contact us.

Very truly yours,

J. A. Stall Vice President St. Lucie Plant

JAS/spt

Enclosure

ADD

cc: Regional Administrator, USNRC, Region II Senior Resident Inspector, USNRC, St. Lucie Plant

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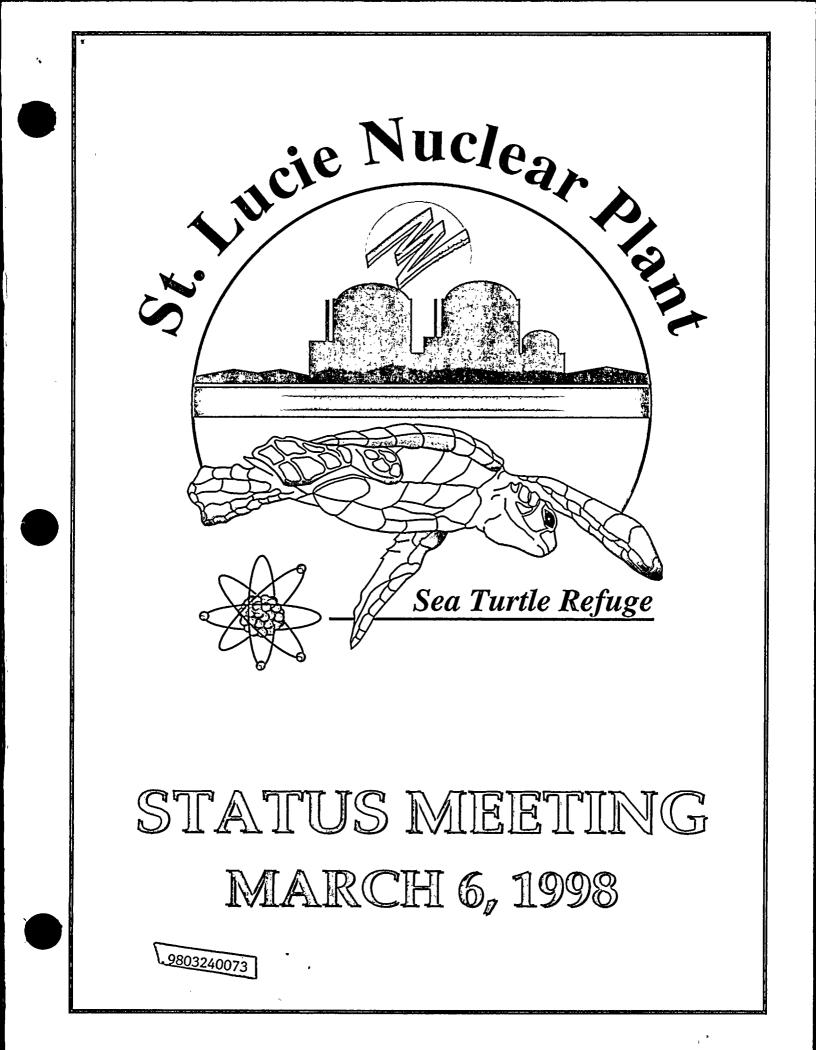
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Agenda

Business Plan Operations Maintenance Work Control Engineering Break Services Materials Management **Business Systems** Licensing Human Resources Quality Assurance

- J. Scarola H. Johnson J. Marchese C. Wood C. Bible
- D. Fadden
- L. Rogers
 - R. Heroux
 - E. Weinkam
 - L. Morgan
 - R. De La Espriella



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Business Plan

J. Scarola

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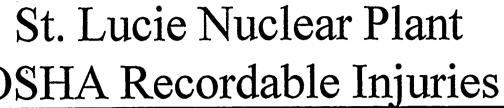
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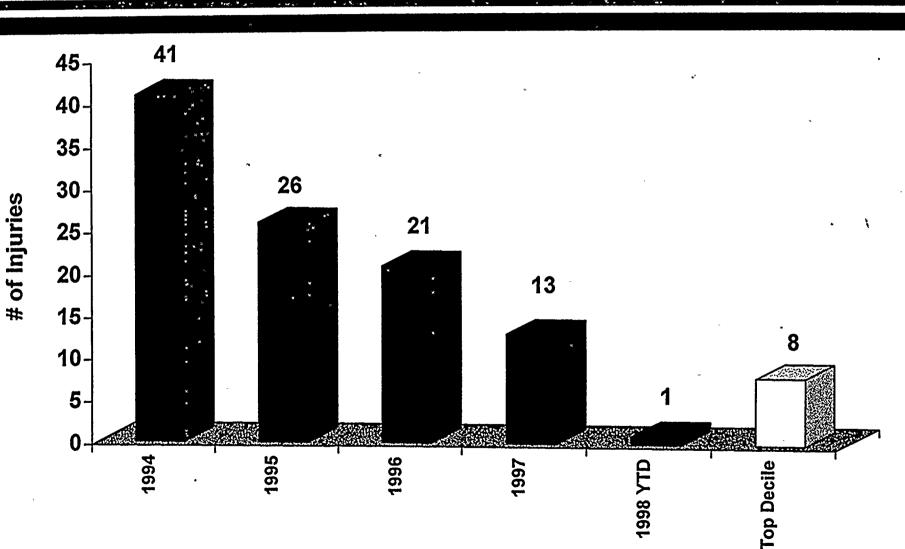
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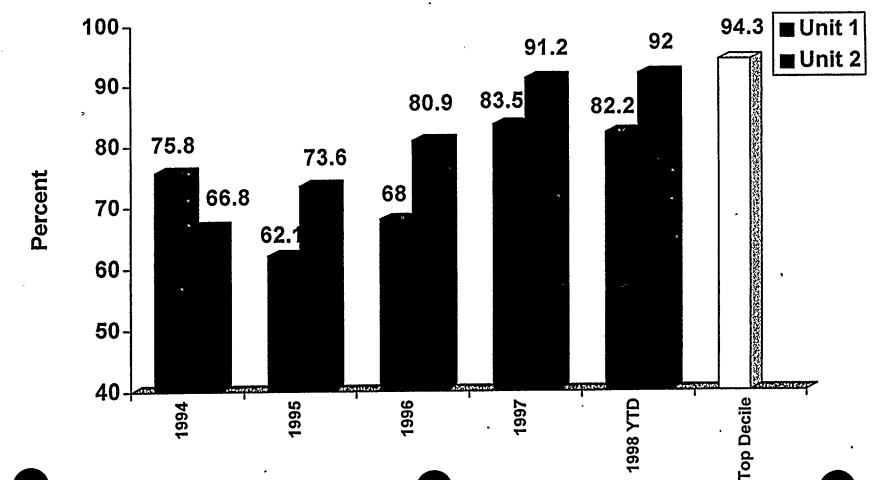


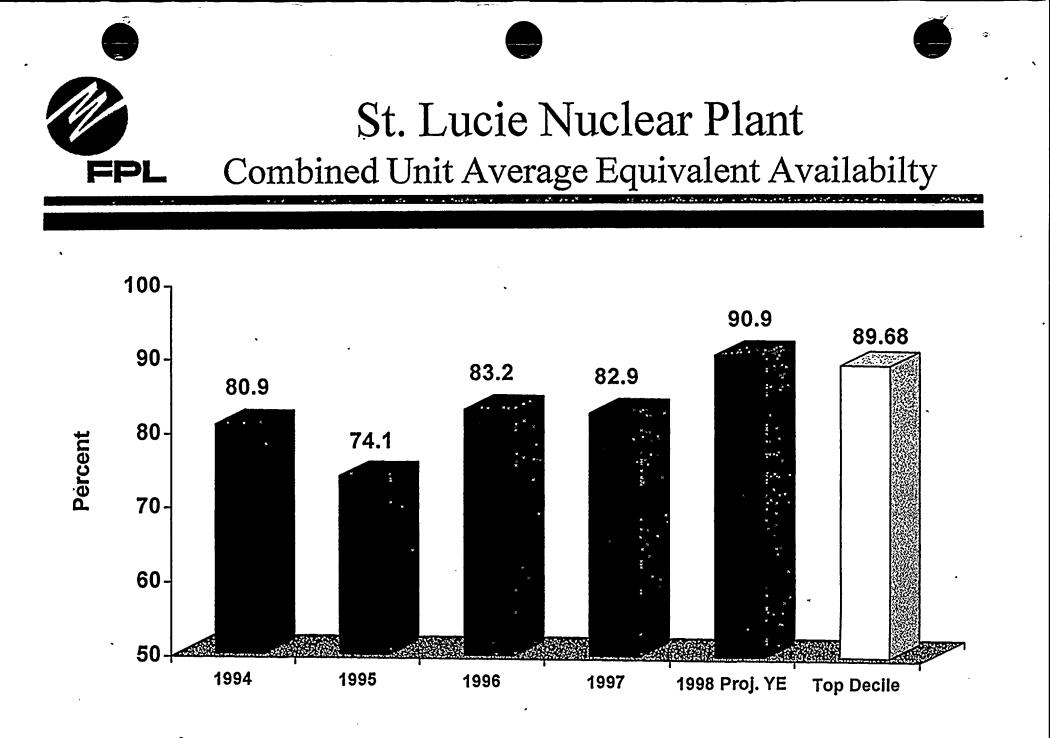






St. Lucie Nuclear Plant WANO Overall Performance





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St. Lucie Nuclear Plant 1998 Significant Events

- FPFI INSPECTION MARCH
- EMERGENCY PREPAREDNESS EVALUATED DRILL -MARCH
- ENGINEERING INSPECTION APRIL
- CORRECTIVE ACTION INSPECTION APRIL
- INPO OUTAGE ASSIST VISIT MAY
- END OF NRC SALP PERIOD JUNE
- UNIT 2 REFUELING OUTAGE NOVEMBER









H. Johnson

St. Lucie Nuclear Plant

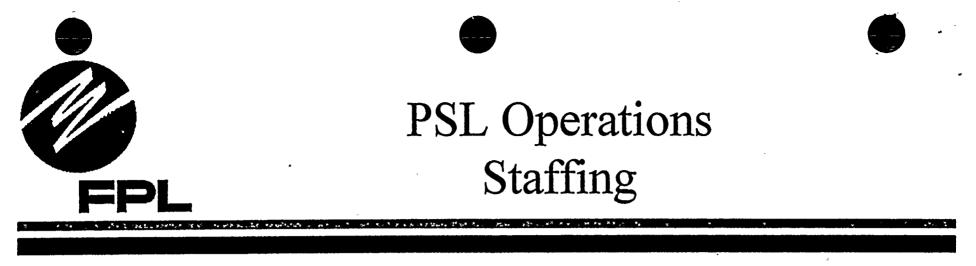
Operations

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- Hot License Class 13A 8 RCO's License 6/98
- Instant SRO's 4 SRO's License 6/98
- Hot License Class 14
 14 RCO's License 12/98
 1 SRO License 12/98

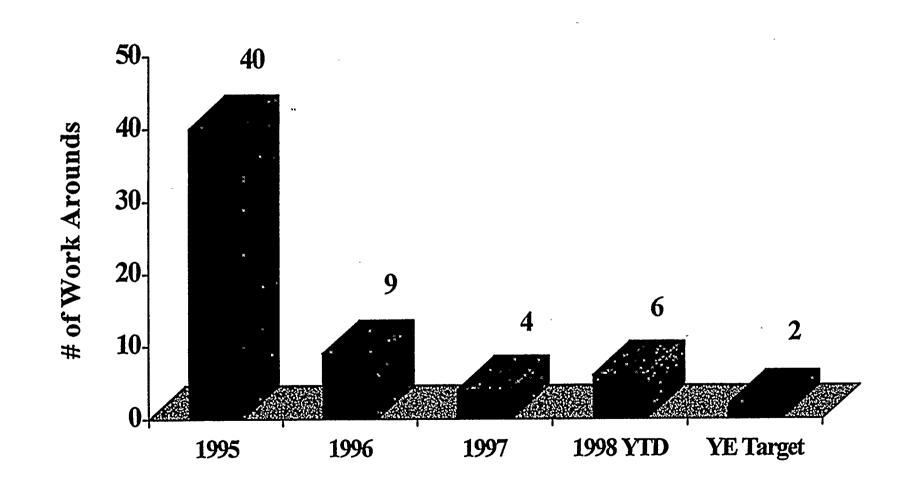


PSL Operations Conduct of Operations

- Focus on Self-Checking and Peer Check to Reduce Errors
- Supervisor Reinforcement of Expectations in Control Room and in the Field
- *"RAISING THE BAR"* in Non-Licensed Operator Training to RCO Level
- Increase Supervisor Presence in the Field to Reinforce Standards
- Work Control Center Changes to Separate Clearance Writing and Review Area From Business Area



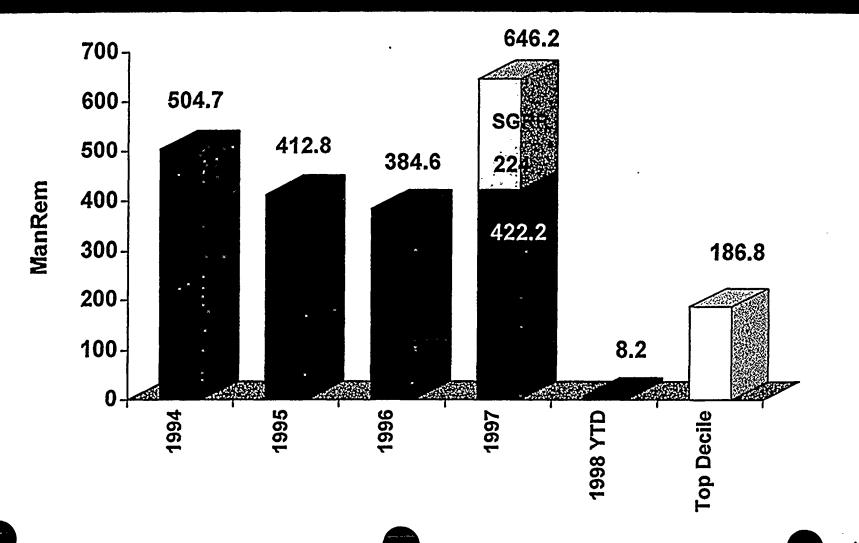






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PSL Operations Radiation Exposure





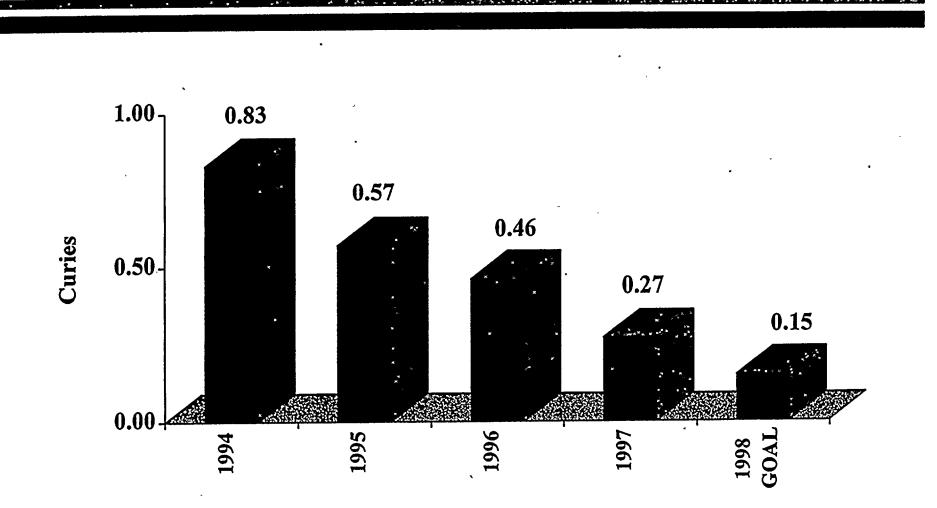


PSL Operations Chemistry Initiatives

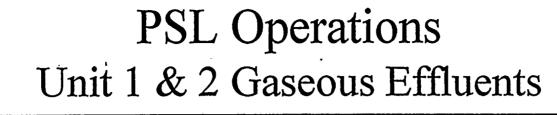
- SECONDARY SYSTEM CORROSION MONITORING PROGRAM
 - Program Scope, Testing Procedures on Schedule for 3/13/98 Completion
 - Iron Transport Mass Balance for PSL 1 and PSL 2 on Schedule for 9/30/98 Completion
- ALTERNATE AMINE IMPLEMENTATION
 - Safety Evaluation in Engineering House for Approval Prior to FRG
 - DMA Implementation On Schedule for 6/30/98
- CLOSED COOLING WATER BIOCIDE/MONITORING PROGRAM
 - Iron, Copper, Ammonia and Nitrate Sampling Implemented
 - Safety Evaluation for Biocide 95% Complete
 - Biocide Treatment Will Commence When Safety Evaluation FRG Approved

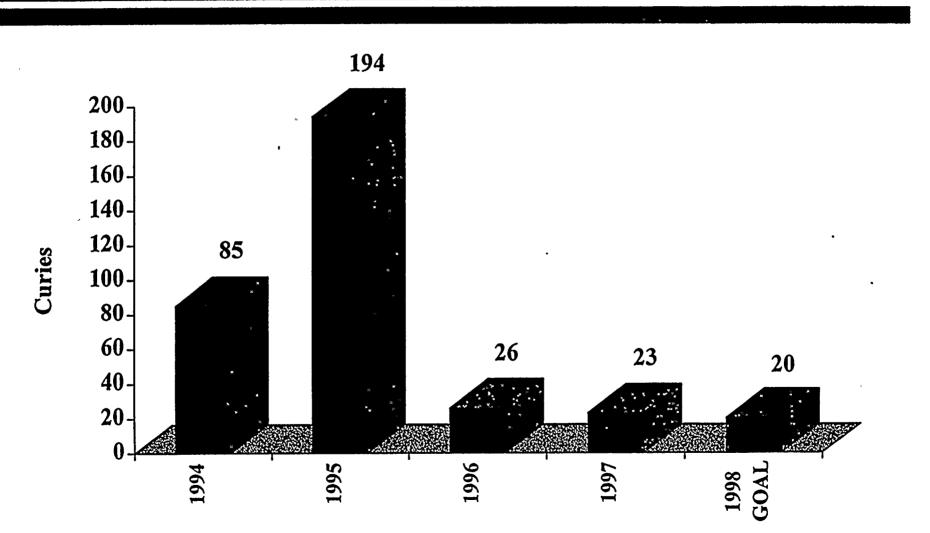


PSL Operations Unit 1 & 2 Liquid Effluents









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St. Lucie Nuclear Plant

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Maintenance .

J. Marchese





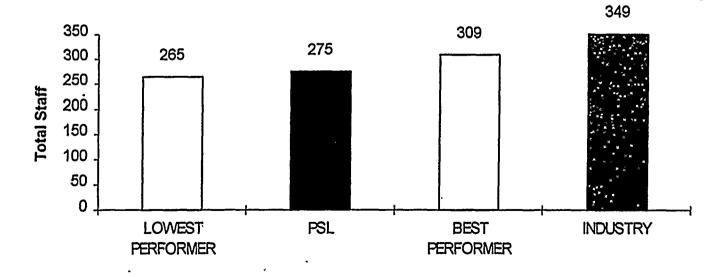


- PURPOSE:
 - Review Preventative Maintenance Tasks (PM's)
 - Determine Basis/Justification of Each Activity
 - Regulatory Basis
 - Technical Basis
 - Cost Benefit
 - Direct and Adjust Current and Future Maintenance Activities Utilizing Information From:
 - Industry Experience
 - OEM Recommendations
 - Equipment History
 - Condition Monitoring Data



MAINTENANCE TOTAL STAFFING AT ST. LUCIE IS BELOW THE BEST PERFORMER BENCHMARK LEVEL

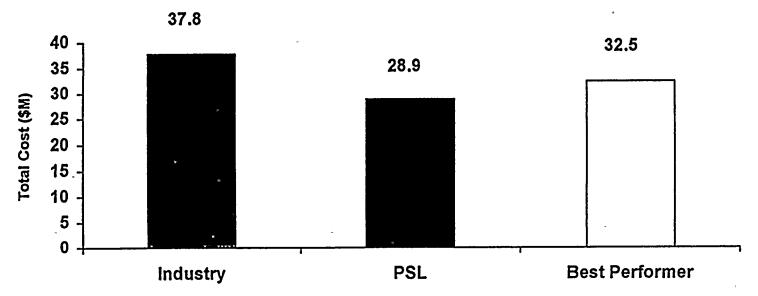
MAINTENANCE PROCESS TOTAL STAFFING (UTILITY & LONG TERM CONTRACTORS)





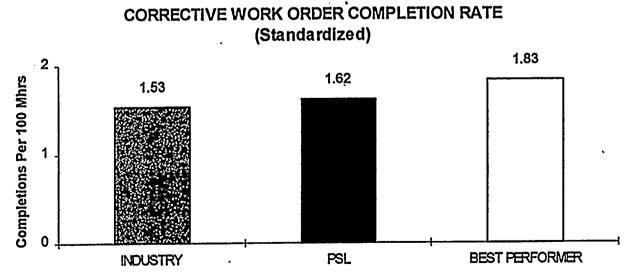
MAINTENANCE DEPARTMENT TOTAL COSTS ARE LOWER THAN THE BEST PERFORMERS

MAINTENANCE DEPARTMENT TOTAL NON-OUTAGE COSTS 1996 - 1997 AVERAGE



PSL Maintenance TMD Maintenance Assessment

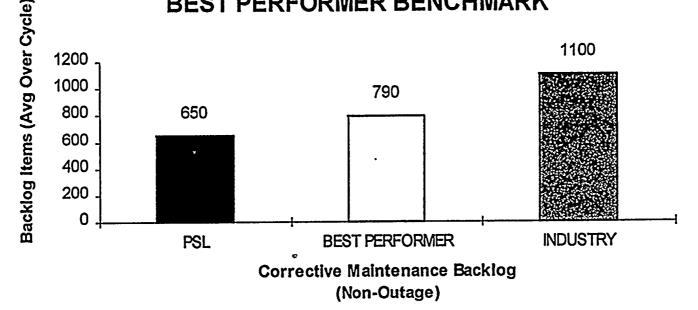
ST LUCIE WORK ORDER COMPLETION RATE IS BETWEEN THE INDUSTRY AND THE BEST PERFORMERS



Note: Standardized to exclude PM's, ST's "tool pouch" items, scaffolding, etc.

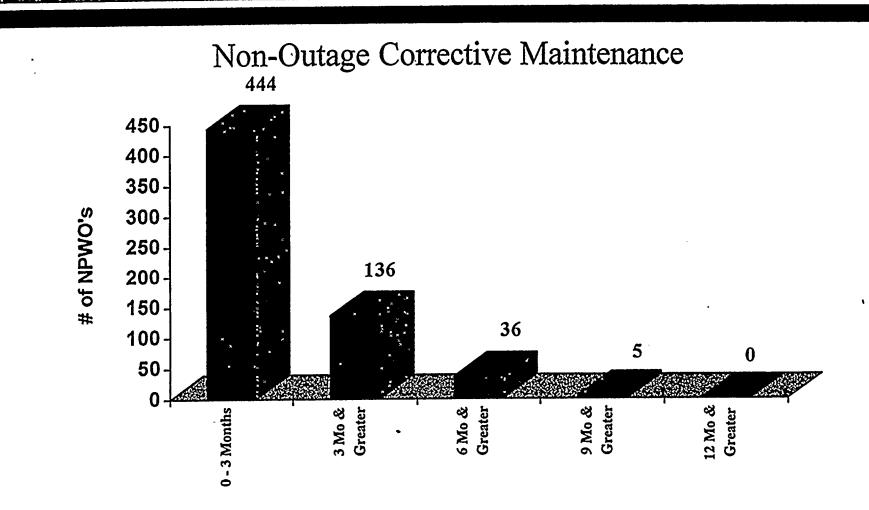


ST. LUCIE NON-OUTAGE CORRECTIVE MAINTENANCE BACKLOG IS LOWER THAN THE BEST PERFORMER BENCHMARK





PSL Maintenance PWO Age



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St. Lucie Nuclear Plant

Work Control

C. Wood

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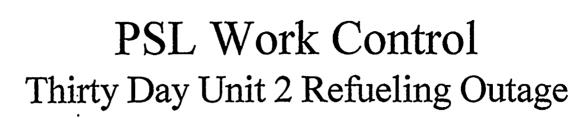
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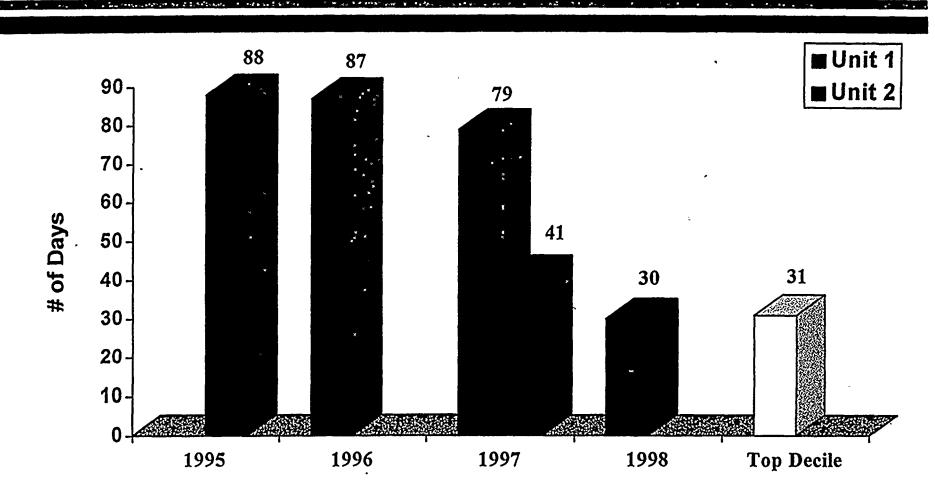


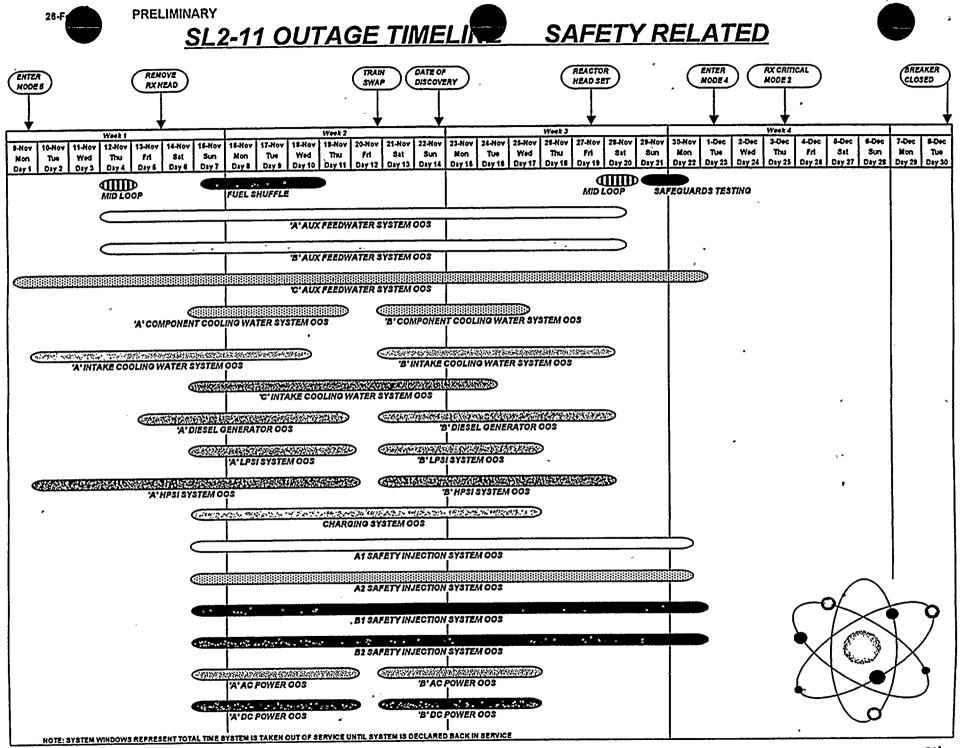


- PRE-OUTAGE MILESTONES
 - Transitioning Toward the INPO Model for Pre-Outage Milestones
 - Unit 2 Pre-Outage Milestones Most Aggressive to Date
 - Unit 1 Pre-Outage Milestones Will Meet the INPO Model
- OUTAGE SCOPE CONTROL
 - Regulatory Required Work
 - Corrective Maintenance Outage Work Orders
 - Five Year Plan PM's



PSL Work Control Outage Duration







PSL Work Control On Line Maintenance (CMM)

- Utilizing Critical Maintenance Management (CMM) to Increase Component Reliability and Decrease Outage Scope Example: Unit 2 CCW Hx Required Mid-Cycle Duration Removed 846 Work Hours of Outage Scope
- Currently Scheduled for 6 CMM'S in 1998

 A CCW Heat Exchanger 	UNIT 2
 B CCW Heat Exchanger 	UNIT 2
– A Start Up Transformer	UNITS 1 & 2
– B Start Up Transformer	UNITS 1 & 2
 A Emergency Diesel Generator 	UNIT 2
 B Emergency Diesel Generator 	UNIT 2





- 13 WEEK ROLLING SCHEDULE
 - Executed the INPO Model Rolling Schedule Approach in 1997
 - Direct Effect on PSL Maintenance Backlog
- WORK CONTROL INITIATIVES
 - Integrate the Scheduling Function
 - Scheduling Tools
 - Utilizing P3 Scheduling Software Accommodates the Needs of Outage and Daily Scheduling Functions
 - Cross Training of Outage and Daily Schedulers
 - Develop Long Term Plan
 - Input all Work Items Into the Passport System
 - Levelize Work Items to Facilitate Resource and Cost Management





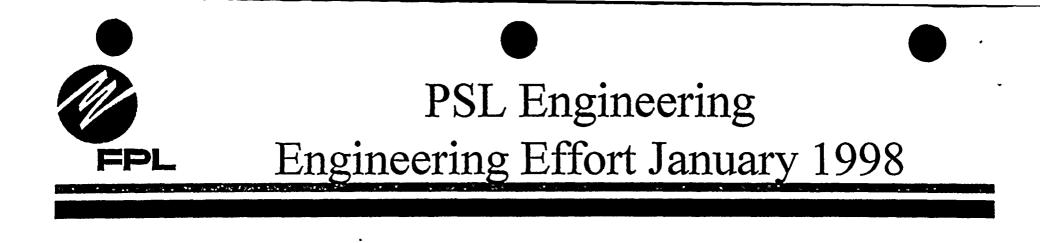
Engineering

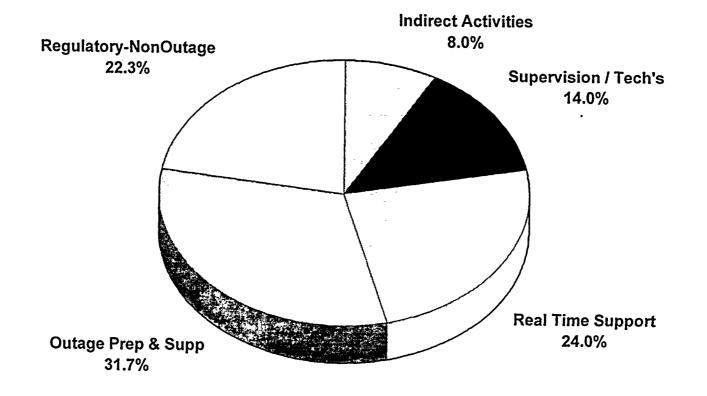
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C. Bible

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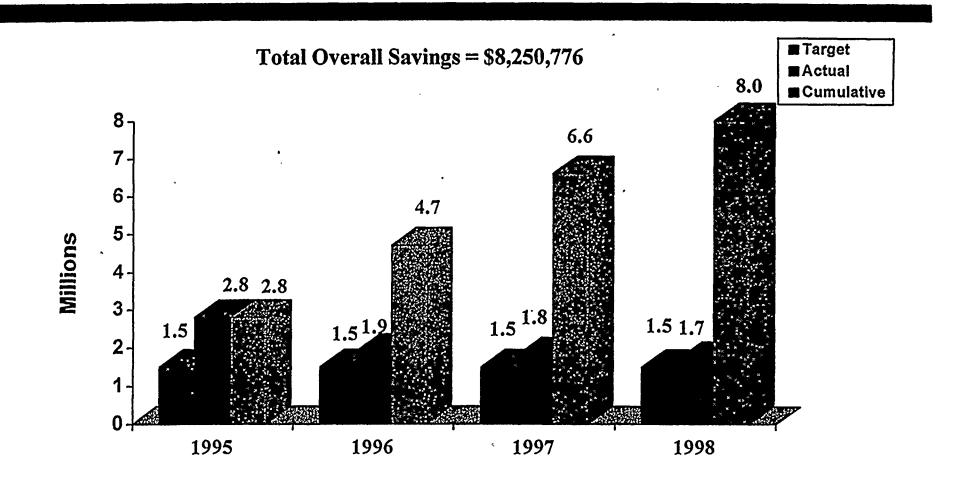
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PSL Procurement Engineering Annual Cost Avoidance







PSL Engineering

NRC Fire Protection Functional Inspection

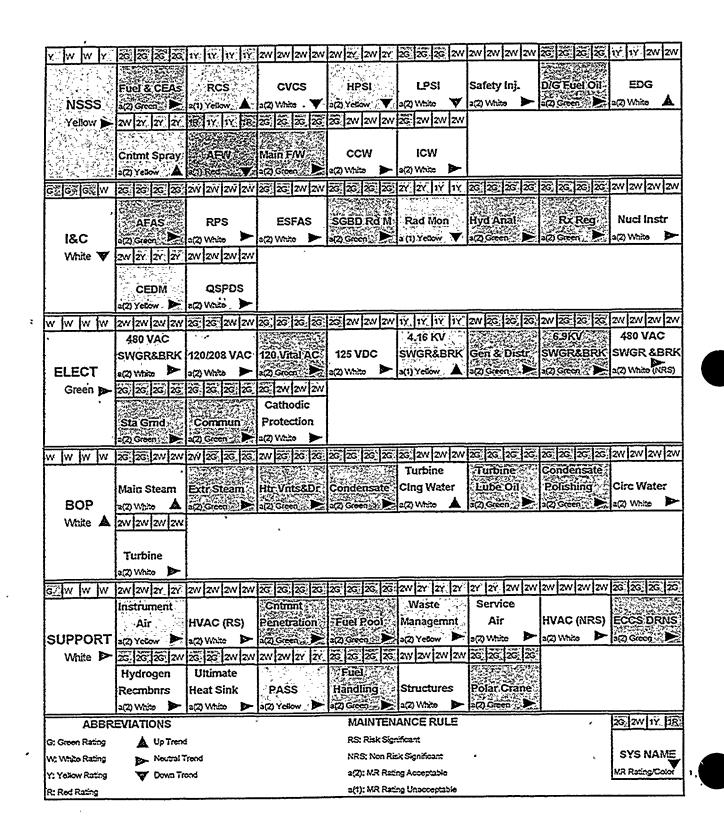
Engineering Plan

- BACKGROUND
 - PSL Selected by NRC (3rd of 4 Plants) to Undergo Pilot FPFI
 - Inspection Focus

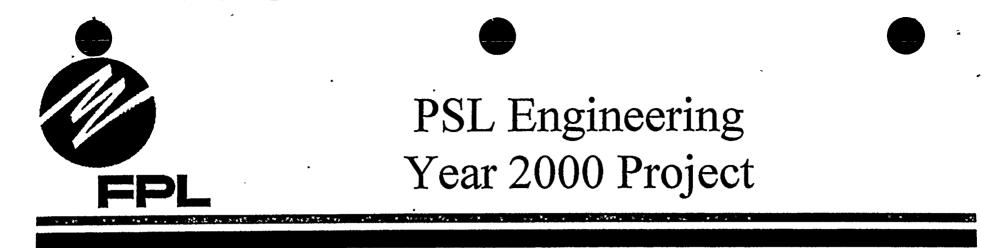
Cable Separation	PCM Process	Fire Detectors
Emergency Lights	Fire Walls	Hose Stations
Control of Combustibles	Operator Actions	Thermal Lag
Smoke Detectors	Fire Team Response/Training	

- 2 Day Data Collection Trip Completed 2/10 2/11. NRC Concluding Comments Were Positive
- Start Date: March 9 Duration: 4 Weeks
- FPL STAFF AND RESOURCE EXPENDITURES
 - 34 Engineering Personnel and the PSL Fire Protection Supervisor
 - 15,000 Workhours Expended to Date

MAINTENANCE RULE SYSTEM STATUS UNIT 1 - FOURTH QUARTER 1997



3,



- Development of Nuclear Division and Site Teams
- Program Modeled After NUSMG/NEI NEI-97-07
- One Outage in Each Unit Prior to 2000
- Inventory Phase in Progress for Unit 2
 - 26,000 Components to be Reviewed
 - 8 Known Software Programs Affected
 - Unit 2 Outage Starts 10/98
- Assessment and Remediation Phase to Follow
- Joined CE Owners Group Initiative
- Monitoring Progress at Other Utilities
- NRC Generic Letter Expected



PSL Engineering Major Plant Mods and Significant Projects

- SL2-11 MAJOR PLANT MODIFICATIONS
 - Actuator GL 89-10 Program, Motor Operated Valve Upgrades
 - GL 96-06 Issues, Thermal Pressurization of Containment Penetrations
 - Year 2000 Software Issues
 - MSIV Bypass Valve Replacements (2)
 - Upgrade EDG Woodward Governors
- SIGNIFICANT PROJECTS -
 - FSAR Review
 - Total Equipment Database Upgrade
 - Control Room Upgrades
 - Thermolag Resolution
 - Leading Edge Flowmeter Installation Unit 1
 - ECOLOCHEM Water Treatment
 - RCP N9000 Seals



St. Lucie Nuclear Plant

D. Fadden

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Services

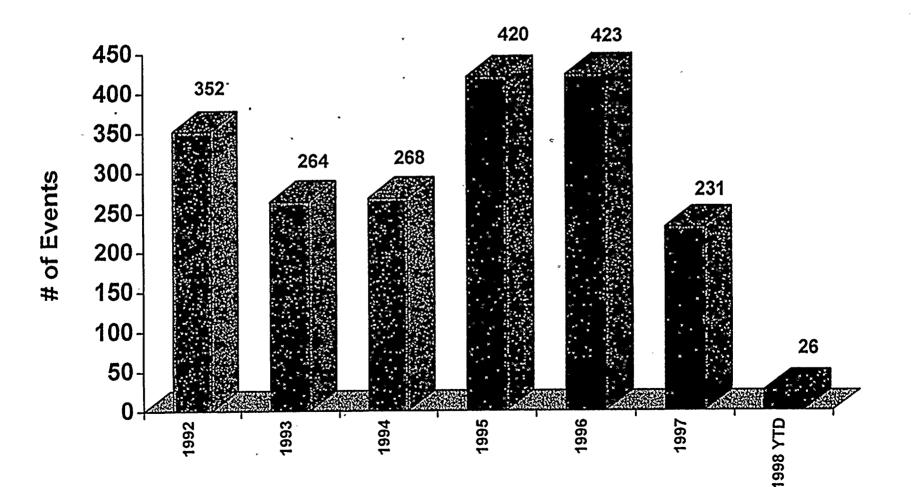
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PSL Services Security Loggable Events





PSL Services - Security Improving Personnel Inprocessing

- Benchmarked Nine Other Nuclear Sites.
- Selected South Texas Project to Visit March 2-3, 1998
- Develop List of Inprocessing Improvements to Management for Their Consideration and Approval
- Develop Common Inprocessing Program at PTN and PSL
- Monitor Implementation at PTN



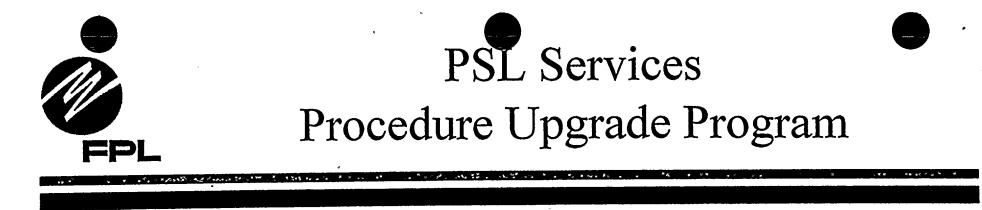


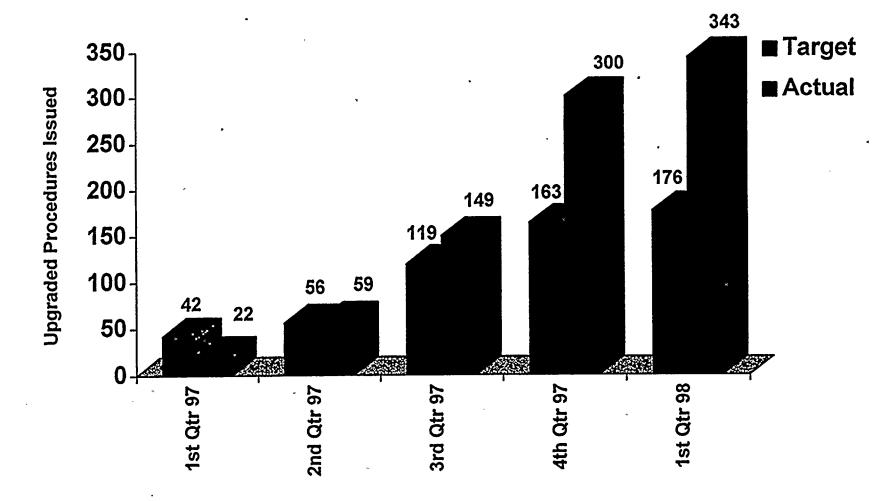
- Implemented Quarterly Integrated Drills
- Conducted Self Assessments With Industry Participation
- Upgraded All EPIPs
- Enhanced Call-Out Process
- Redesigned TSC Organization and Facility
- Offsite Relations with Local Fire District
 - The Fire Board presentation on 2/18/98 was partially successful.
 - Fire Chief will participate in annual fire drills and emergency drills.
 - Fire District will not sign letter until the tax issue if resolved. A new letter is needed in 1999.



PSL Services - Training Training Initiative - Human Error Reduction

- Peer Check Program
- Self Check Program
- 3-Way Communication
- Operations Expectations Video
- STAR Simulator
- Improved Simulator Evaluations
- Increased Management Observations
- Fostering Questioning Attitude
- INPO Human Performance Training
- Tailboards
- Crew Briefs
- Self Assessments

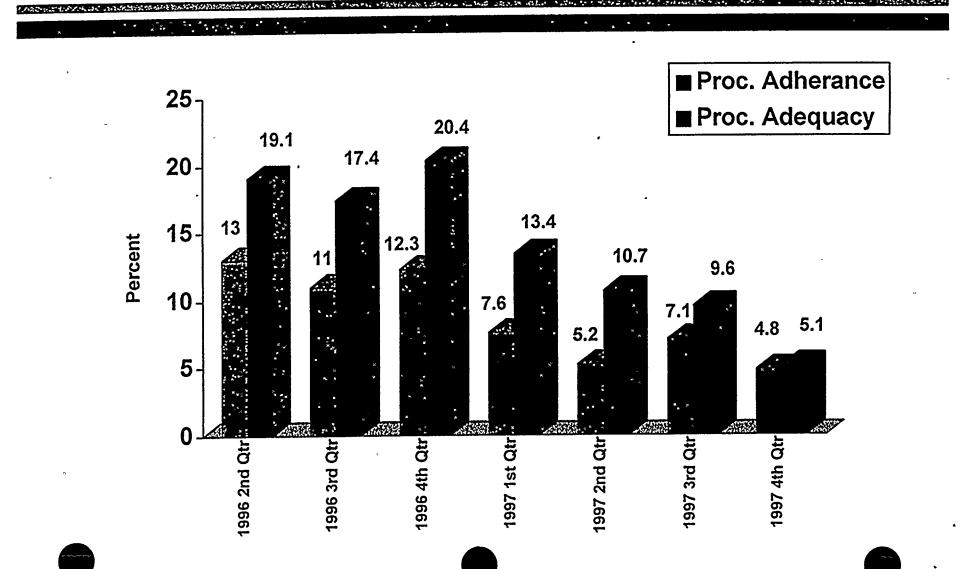




FPI

PSL Services

Procedure Adherance/Procedure Adequacy Events







St. Lucie Nuclear Plant

Materials Management

L. Rogers

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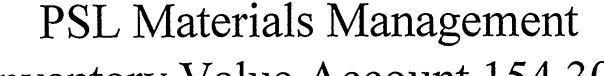
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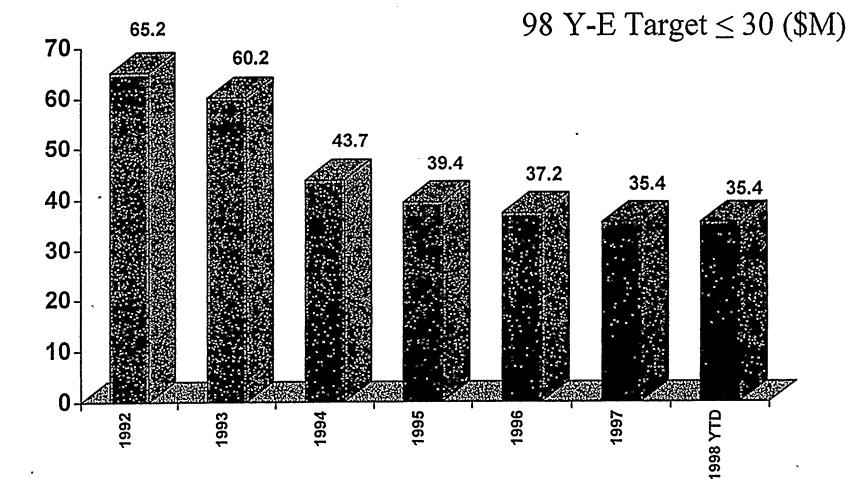
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Inventory Value Account 154.300



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PSL Nuclear Materials Management Initiatives to Reduce Inventory

- STOP INCREASING INVENTORY
 - Increase Visibility of Material Ordered and Not Used
 - Outage Report Card
 - Analyze and Prevent
 - REPAIR Versus REPLACE Culture
 - Reduce Contingencies Take More Risk
- INVENTORY CONSOLIDATION PTN/PSL
 - Common Nuclear Division Goal
 - Common Specifications for Material (PE)
 - Phase I Review 2000 Items Common to PTN/PSL
 - Phase II Perform Model and Part Number Searches
 - Fastener Consolidation
 - PTN/PSL Restocking Reviews
- VENDOR CONSIGNMENT OR STOCKING AGREEMENTS
- CONTINUE TO IDENTIFY DORMANT MATERIAL FOR WRITE-OFF







St. Lucie Nuclear Plant

Business Systems

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R. Heroux

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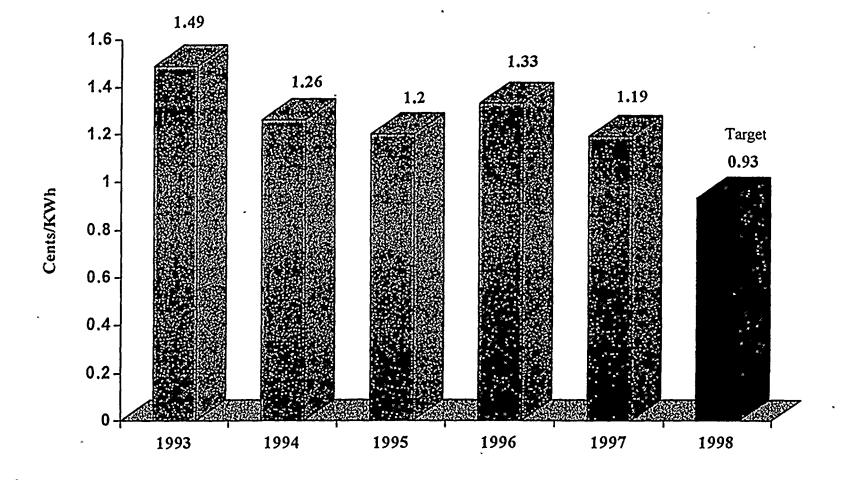


PSL Business Systems Cost

- MONTHLY CENTS/KWh
 - Site Wide Communication
- ENHANCED REPORTING
 - More Layers Added
 - Check Book Style
 - "Tradeoffs" Not Used
- INCREASED ACCOUNTABILITY
 - Information Targeted to Reviewer's "Horizon"
 - Formal Budget Reviews



PSL Business Systems O&M Cents/KWh







St. Lucie Nuclear Plant

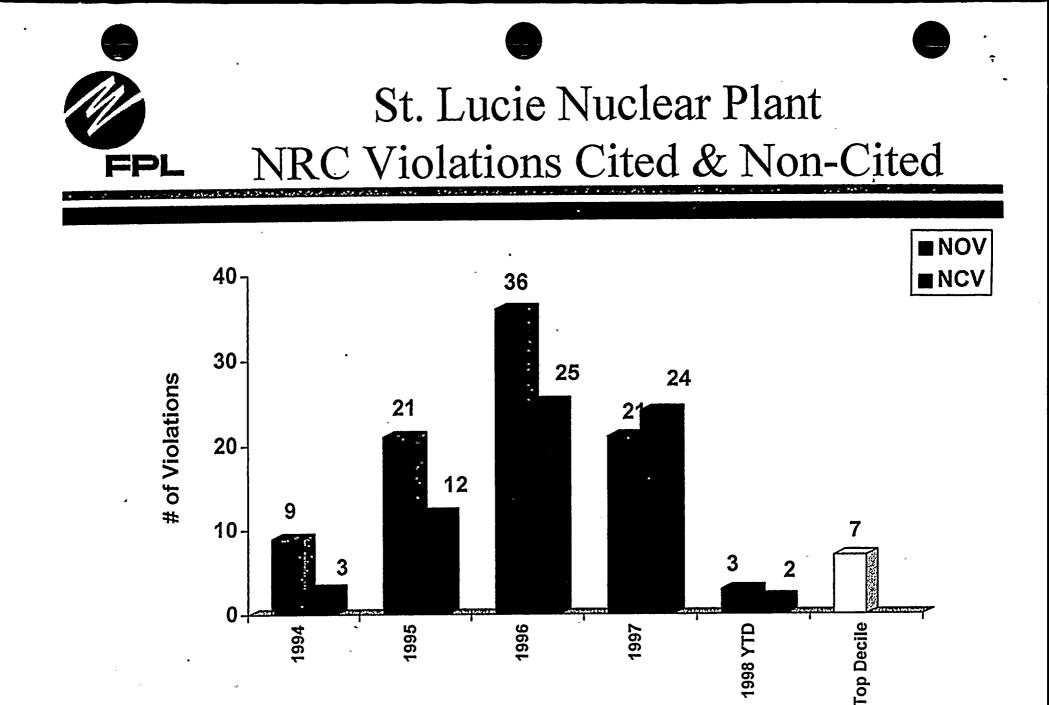
Licensing

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E. Weinkam

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PSL Licensing 1998 NRC Enforcement Status

- APPARENT VIOLATIONS PENDING
 - Potential Escalated Enforcement
 - Refueling Water Tank Recirculation Actuation Setpoint Error (2 Apparent Violations)
 - Unauthorized Protected Area Access
 - (1 Apparent Violation)
- POTENTIAL NON-CITED VIOLATIONS PENDING







PSL Licensing Licensing Activities

- SIGNIFICANT LICENSING ISSUES
 - Complete
 - Unit 1 Steam Generator Narrow Range Level Instrumentation
 - Testing of Safety Related Logic Circuits
 - In Process
 - Thermo-Lag
 - Operability of Equipment and Containment Integrity During DBA Conditions
 - Unit 1 Fuel Vendor Transition
 - Under Review
 - Unit 2 Spent Fuel Pool Boron Credit Extends Full Core Off-Load Capability From 2001 to 2006
 - Assurance of Sufficient NPSH for ECCS and CS Pumps

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Human Resources

L. Morgan

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- IMPROVED OUTAGE HIRING PROCESS
 - Verification of Temp Qualifications
 - Temp Performance Appraisals
 - Process Improvements
- RESPONSE TO TRAINING NEEDS
 - Completion of HPS for All Managers, Supervisors & Foremen
 - "Safely Speaking" for All Managers & Supervisors

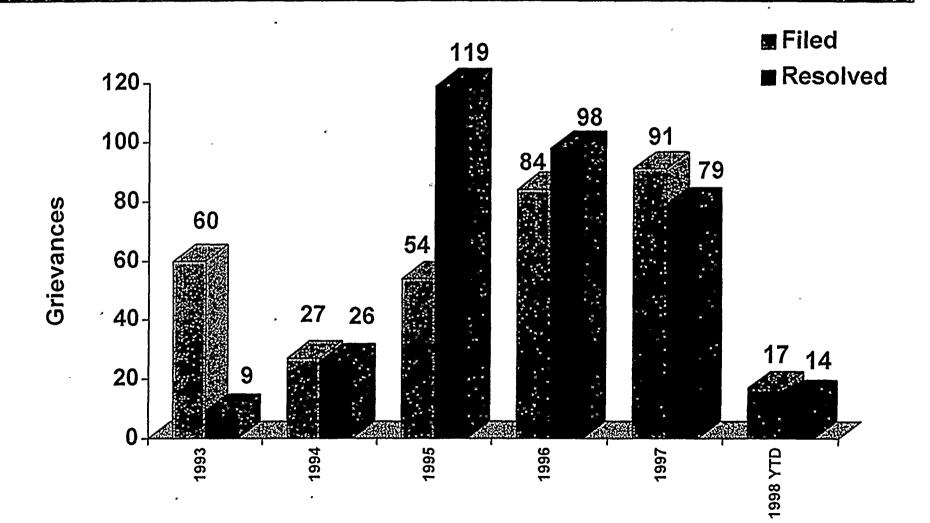


PSL Human Resources 1998 Initiatives

- INTEGRATED SITE TRAINING PLAN
 - Core Curriculum
 - Mini-Workshops
- QUALIFICATION FOR EMERGENCY RESPONSE
 ORGANIZATION

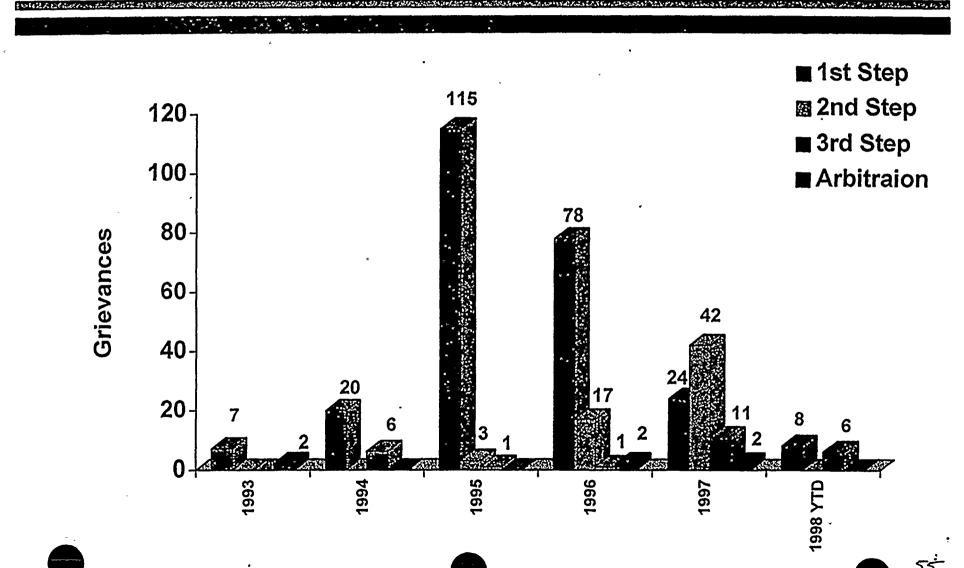








PSL Human Resources Resolved Grievances



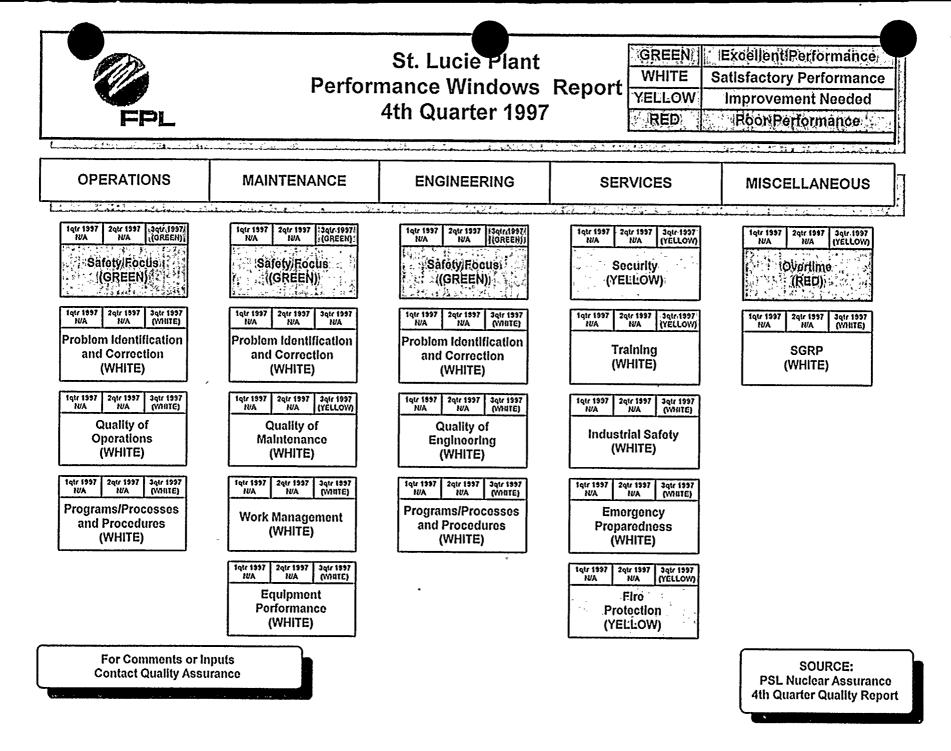




St. Lucie Nuclear Plant

Nuclear Assurance

R. De La Espriella





PSL Nuclear Assurance Recent Audits

- SPECIAL NUCLEAR MATERIALS
 - Knowledge of SNM Control and Accountability
 - 1 Finding
- FIRE PROTECTION
 - Design and Past Corrective Actions
 5 Findings
- INSERVICE TESTING
 - Pressure Testing and Test Records
 - 4 Findings