CATEGORY 2

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9609270012 DOC.DATE: 96/09/11 NOTARIZED: NO DOCKET #
FACIL:50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
AUTH.NAME AUTHOR AFFILIATION
LANDIS,K.D. Region 3 (Post 820201)
RECIP.NAME RECIPIENT AFFILIATION
PLUNKETT,T.F. Florida Power & Light Co.

SUBJECT: Summarizes 960829 meeting w/FPL in Juno Beach,FL re stated topics & status of St Lucie plant.List of attendees & FPL handouts encl.

DISTRIBUTION CODE: IE45D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 63
TITLE: Summary of Significant Meeting with Licensee (Part 50)

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CATEGORY 2 DOCUMENT

September 11, 1996

Florida Power and Light Company
ATTN: Mr. T. F. Plunkett
President - Nuclear Division
P. O. Box 14000
Juno Beach, FL 33408-0420

SUBJECT: MEETING SUMMARY - STATUS MEETING
SAINT LUCIE 1 AND 2 - DOCKET NOS. 50-335 AND 50-389

Dear Mr. Plunkett:

This refers to the meeting on August 29, 1996, at your Training Building Room 123A. The purpose of the meeting was to discuss the status of your plant. It is our opinion, that this meeting was very beneficial.

Enclosed is a list of Attendees and Florida Power and Light Company Handouts. The discussions included the following topics: Plant Operating Report, Operations, Maintenance, Engineering, Corrective Action Program, and Quality Assurance. In addition, organizational accomplishments, challenges, lock and key switch tampering event, and the corrective actions were briefly discussed at the meeting. Consequently, the Steam Generator Project and Services area were only briefly discussed. We plan to more fully discuss the Steam Generator Project, Self Assessment, and Training at the next status meeting.

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

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

Sincerely,

Orig signed by Kerry D. Landis

Kerry D. Landis, Chief
Reactor Projects Branch 3
Division of Reactor Projects

Docket Nos. 50-335, 50-389
License Nos. DPR-67, NPF-16

Enclosures: 1. List of Attendees
2. FP&L Handouts
cc w/encls:
J. A. Stall, Site Vice President
St. Lucie Nuclear Plant
P. O. Box 128
Ft. Pierce, FL 34954-0128
cc w/encls: Continued see page 2

OFFICIAL COPY

1/1

T.E. 45

cc w/encls: Continued
H. N. Paduano, Manager
Licensing and Special Programs
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Juno Beach, FL 33408-0420

J. Scarola, Plant General Manager
St. Lucie Nuclear Plant
P. O. Box 128
Ft. Pierce, FL 34954-0128

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Morgan, Lewis & Bockius
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John T. Butler, Esq.
Steel, Hector and Davis
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Bill Passetti
Office of Radiation Control
Dept. of Health and Rehab Serv.
1317 Winewood Boulevard
Tallahassee, FL 32399-0700

Jack Shreve, Public Counsel
Office of the Public Counsel
c/o The Florida Legislature
111 West Madison Avenue, Room 812
Tallahassee, FL 32399-1400

Joe Myers, Director
Division of Emergency Preparedness
Department of Community Affairs
2740 Centerview Drive
Tallahassee, FL 32399-2100

Thomas R. L. Kindred
County Administrator
St. Lucie County
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Ft. Pierce, FL 34982

cc w/encls: Continued see page 3

cc w/encls: Continued
Charles B. Brinkman
Washington Nuclear Operations
ABB Combustion Engineering, Inc.
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Rockville, MD 20852

Distribution w/encls:
L. Wiens, NRR
G. Hallstrom, RII
PUBLIC

NRC Resident Inspector
U.S. Nuclear Regulatory Comm.
7585 South Highway A1A
Jensen Beach, FL 34957-2010

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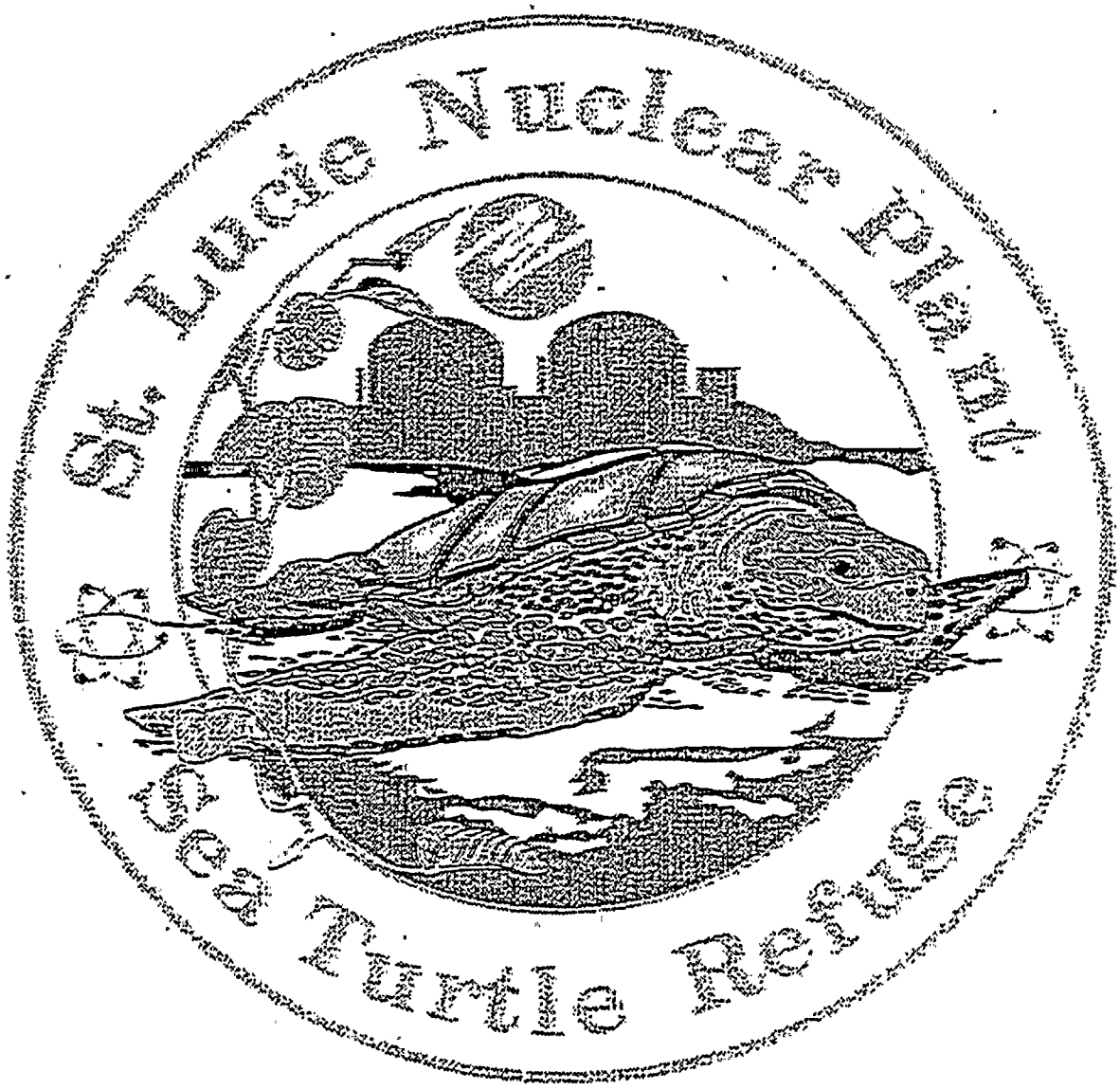
COPY?	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\STLUCIE\MEETING\SLMTG829.SUM

St. Lucie Plant Status Meeting



August 29, 1996

ST. LUCIE PLANT
OPERATING REPORT

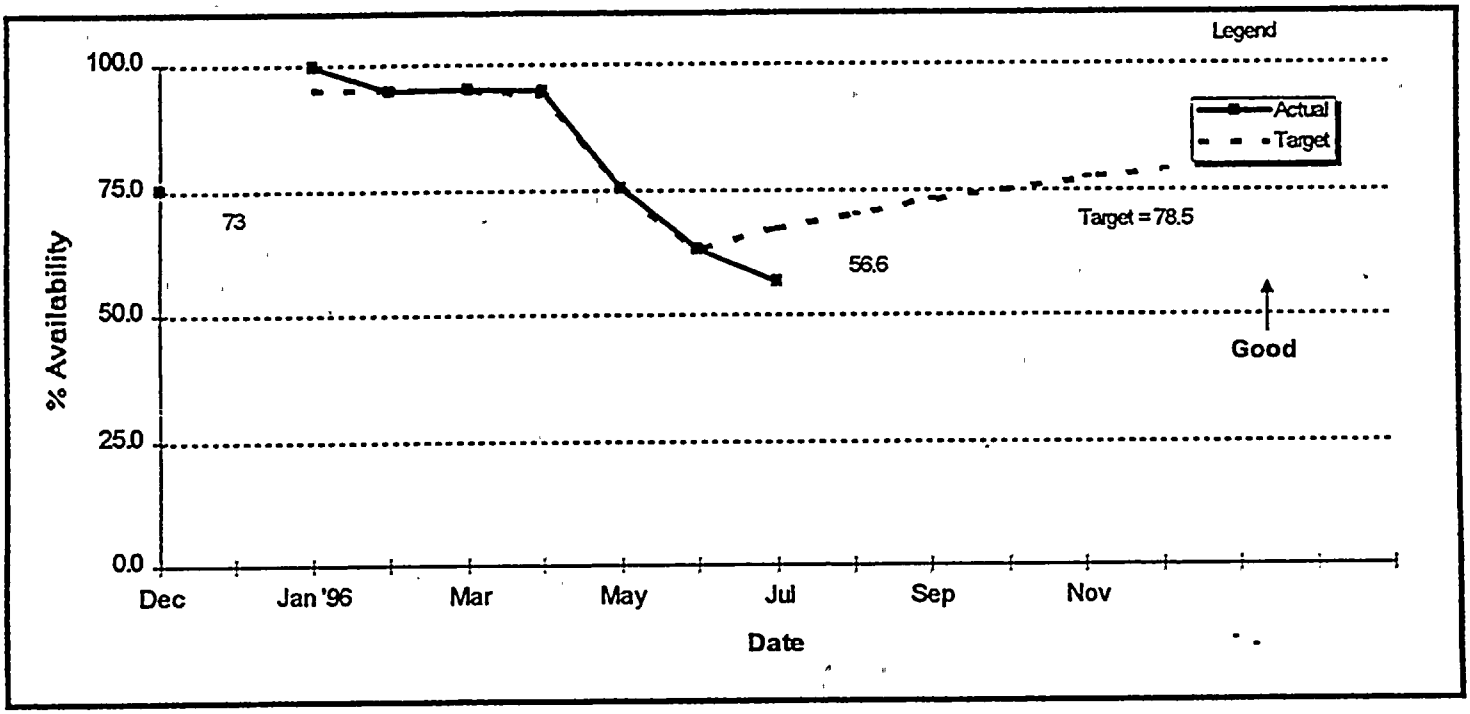
St. Lucie Status Meeting Agenda

August 29, 1996
9:30 AM
Training Building, Room 123A

Opening Remarks	A. Stall
Operating Report	J. Scarola
Operations	C. Marple
Maintenance	J. Marchese
Engineering	D. Denver
Steam Generator Project	D. Sipos
Services	C. Burton/ M. Allen
Corrective Action Program	B. Dawson
Quality Assurance	W. Bladow

Operating Report

Unit One



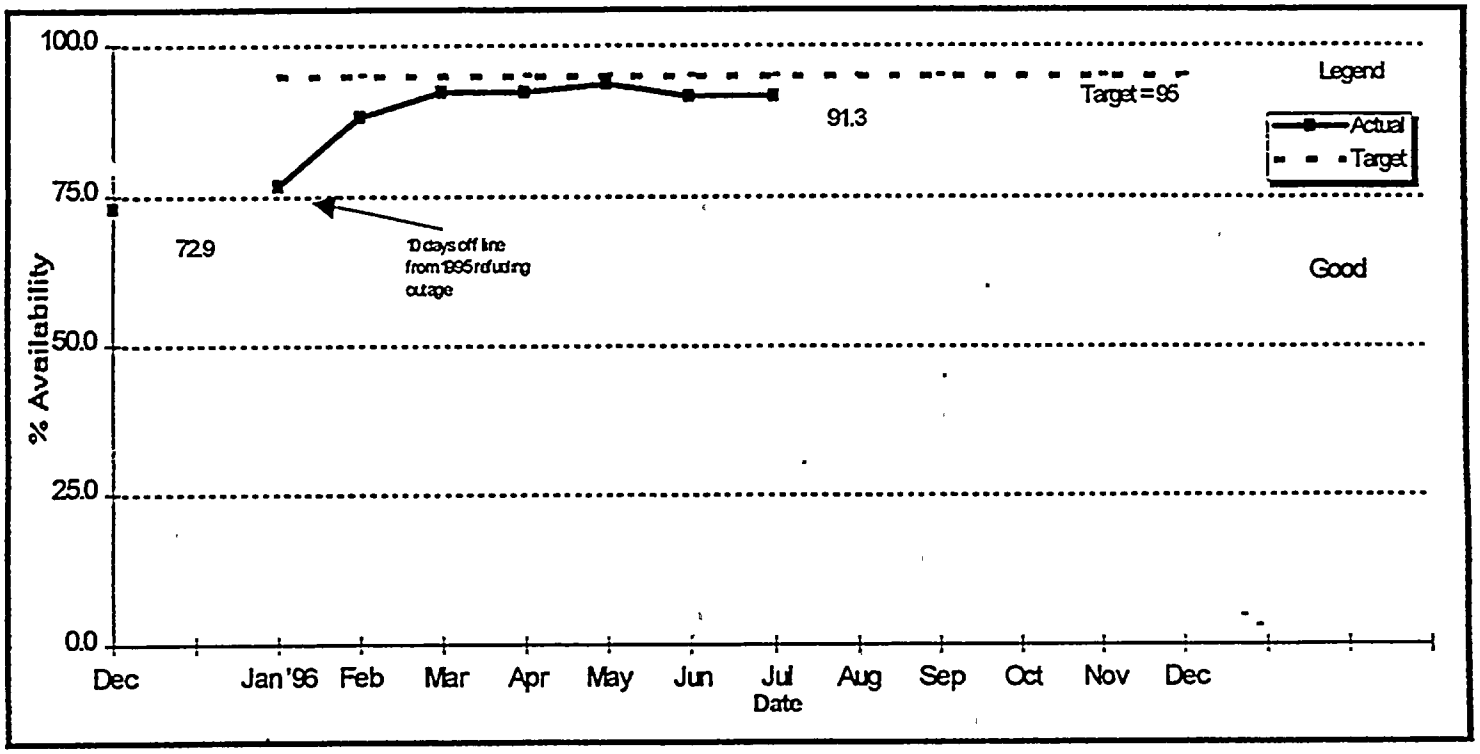
Refueling outage ended 7/25/96 (88 days)

Turbine balance outage 8/23 - 8/24

- Well planned evolution. Completed on schedule

Operating Report

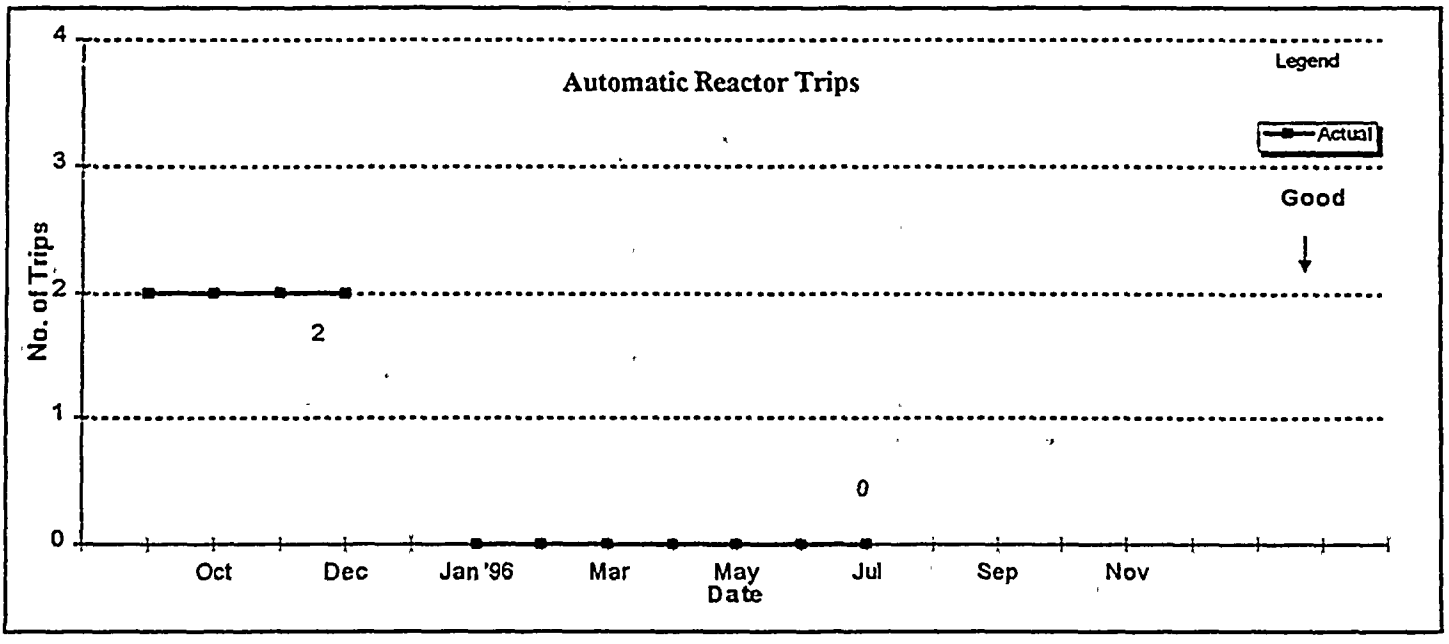
Unit Two



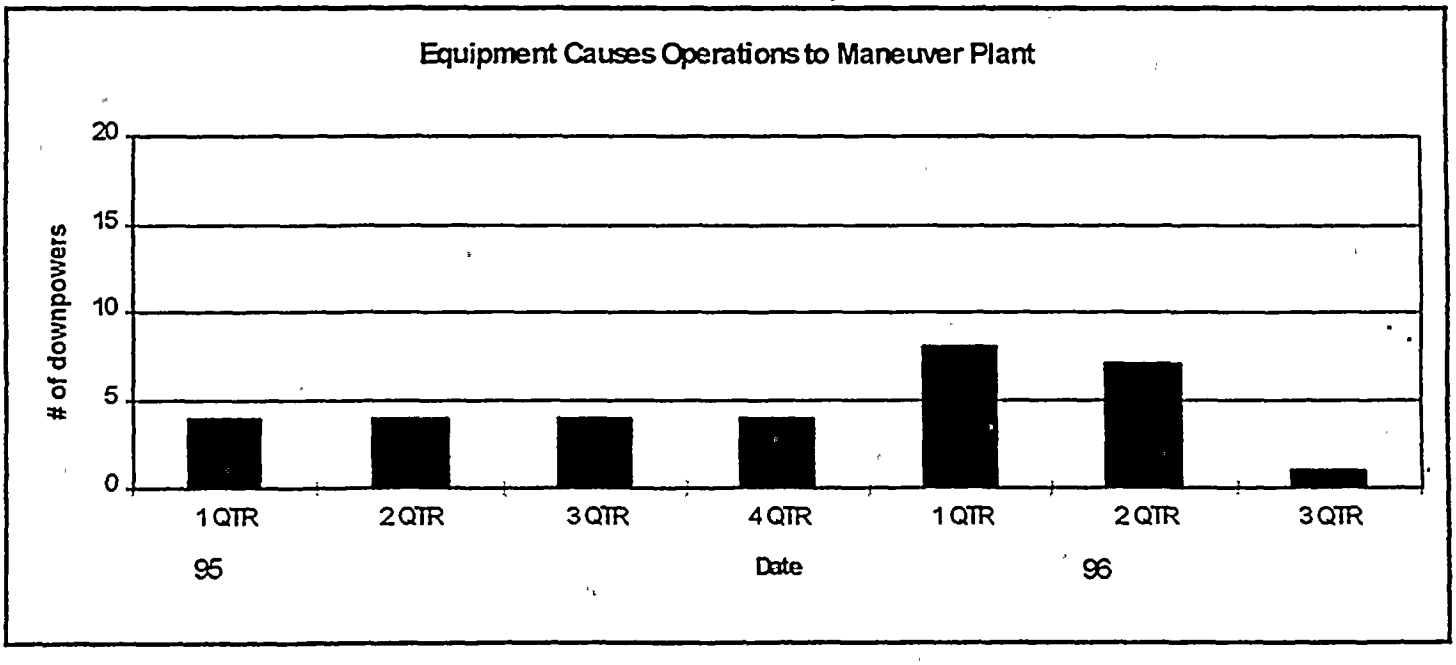
76 days on line

Next outage - April 15, 1997

Operating Report

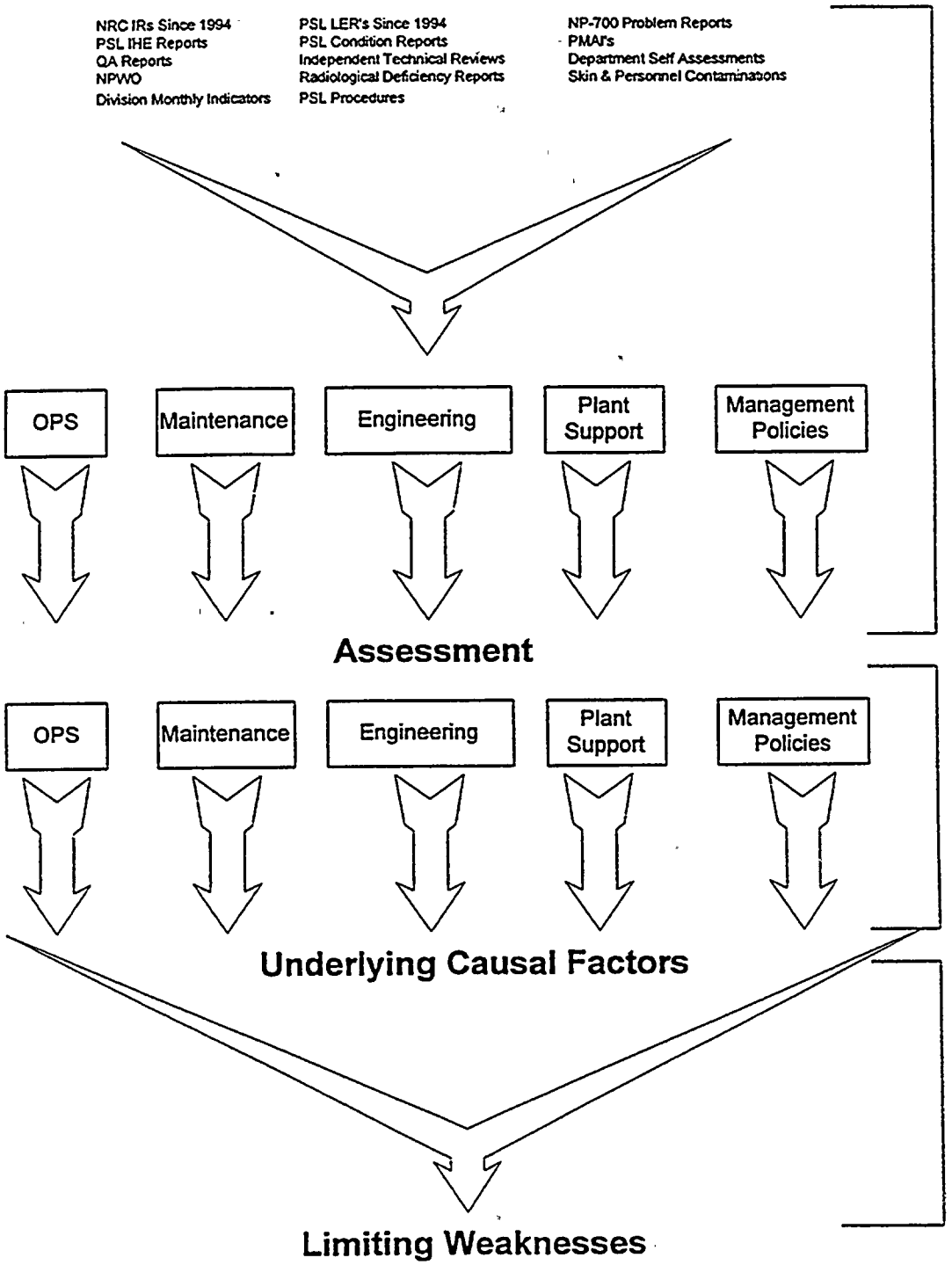


- No Automatic Trips



- But equipment failures cause Operations to respond

PSL Integrated Performance Assessment



OPERATIONS

Operations

Accomplishments

- Error free Unit 1 shutdown/startup (8/24)
- On shift communication improvements
- Reduction in Operator Work Arounds

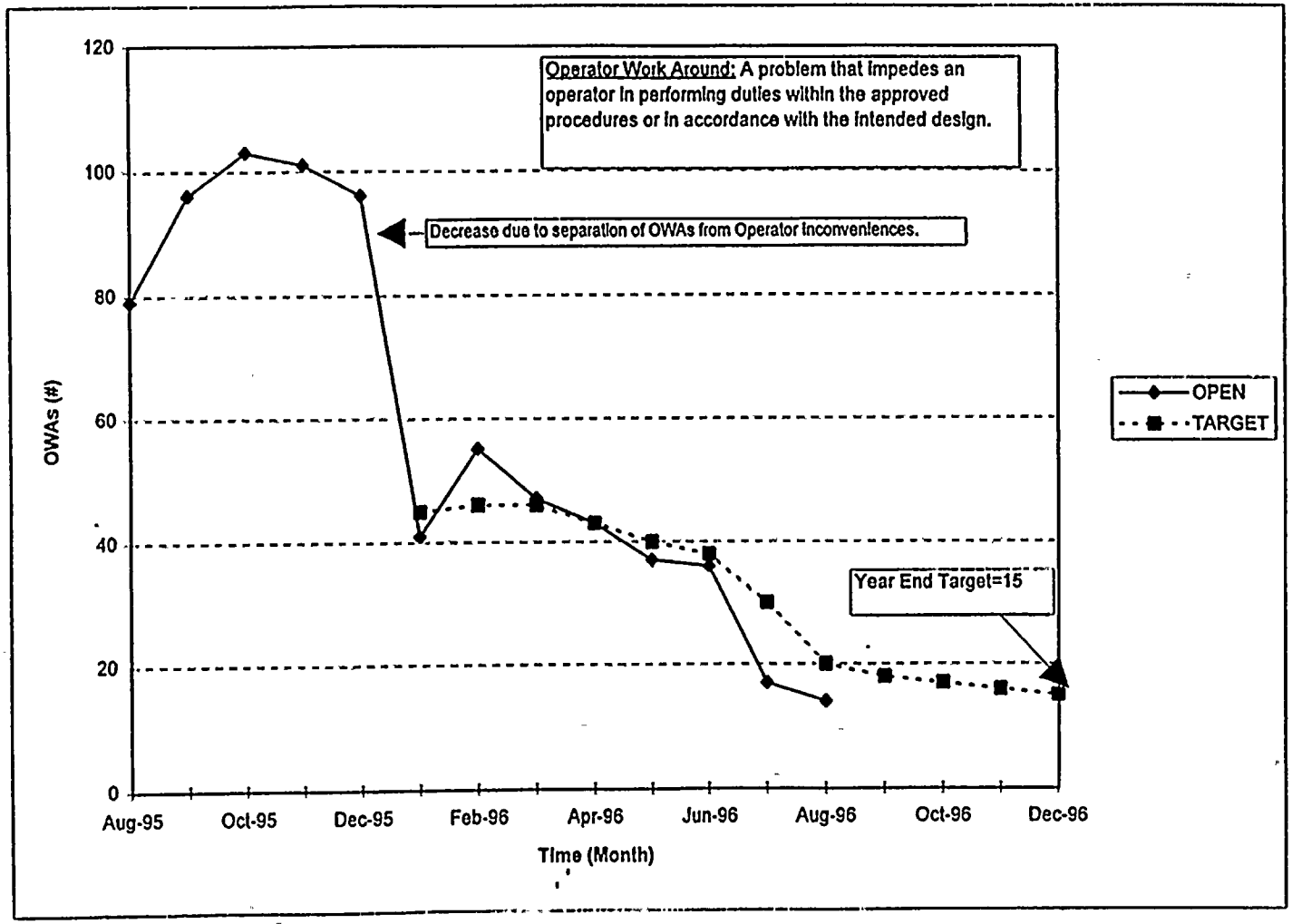
Problem areas

- Procedure Upgrade
  - Annunciator summary procedures
  - Off-normal procedures
  - Normal operating procedures
  - Centralize procedure writers group in 9/96
- Improve watch standing techniques/ownership
  - Self-assessment meeting
  - Operator crew meetings (licensed & non licensed)
  - Nuclear plant supervisor meetings
  - Real Time Training Coach (RTTC)
- Reduce out-of specification readings on operator logs
  - Eliminate operator complacency
- Department Self-assessments
  - Operation crew self-assessments will be performed by crew supervisors
  - Provide root cause training to Operations supervisors

OPERATOR WORK AROUNDS

Updated and Submitted by: OST - Fulford

MONTH	Aug-95	Sep-95	Oct-95	Nov-95	Dec-95	Jan-96	Feb-96	Mar-96	Apr-96	May-96	Jun-96	Jul-96	Aug-96	Sep-96	Oct-96	Nov-96	Dec-96
OPEN	79	96	103	101	98	41	55	47	43	37	36	17	14				
TARGET						45	46	46	43	40	38	30	20	18	17	16	15



OPERATOR WORK AROUNDS
WORKING LIST

Updated and Submitted by: OST Fulford

NPWO/ CR NO.	DESCRIPTION	DEPT	STATUS	SCHD START	SCHD COMPLETION
	UNIT - COMMON				
0-960091	Lvl Cntrl Vlvs position indicators destroyed during maint.	MV	WKG	WKG	1/31/97
	UNIT 1				
96-02-228	L/D pressure control vlvs are not able to control press	ENG	WKG	WKG	10/15/96
96-02-300	CST loop seal gets pushed out w/ no fill in progress. Alarms	SCE	SCH	3/1/97	4/1/97
96-03-677	Root cause of gas surge tk moisture trap failure	SCE	WKG	9/1/96	9/30/96
	UNIT 2				
96-03-023	2A & 2B D/G tachometer provide unreliable readings	EM	SCHD	SL-2-10	SL-2-10
96-03-364	D/G pyrometers & thermocouples have chronic loose conn.	IC	SCHD	SL-2-10	SL-2-10
PCM 086-292	PC-11 loop 3 comm failure causes failure of audible alarms	IC	WKG	WKG	9/30/96
96-03-702	PCV-08-879 gland seal reg does control pressure	JPN	SCHD	11/1/96	11/30/96
PCM 251-295	SR-14350 lifted while testing CCW N hdr isolation vlvs	MV	SCHD	SL2-10	SL2-10
#####	V4111, iso fuel transfer tube, leaks by seat	MV	SCHD	1/15/97	2/28/97
96-1880	Restore PIA-1140 to original configuration when RCGVS is fxd	IC	SCHD	SL2-10	SL2-10
96-02-287	V-3217 is leaking by the seat causing the 2A2 SI hdr to press.	SCE	SCHD	SL-2-10	SL-2-10
96-03-613	Extraction stm trap bypass vlvs will not close @ 100% pwr	SCE	SCHD	SL-2-10	SL-2-10
96-03-359	TIC-2223, L/D TCV is swinging causing L/D temp to be unstable	SCE	SCHD	SL-2-10	SL-2-10

Reactor Coolant System (RCS) Leakage Unusual Events

7/13/96 Unit 2

- Based upon what appeared to be greater than 10 gpm leakage charging pump packing leak
- Subsequent investigation:
  - Stuck open check valve on 2C charging pump recirculation line
  - Actions of the Nuclear Plant Supervisor (NPS) were conservative
  - The U.E. was retracted

8/9/96 Unit 1

- Initial RCS leakrate indicates .56 gpm. The NPS orders a second leakrate calculation
- Second leakrate indicated 1.5 gpm. Field operator notified control room 1A charging pump has a leak on center plunger The 1A charging pump was secured and isolated
- NPS declares Unusual Event and orders a third leakrate to be performed
- Third leakrate calculation indicated .423 gpm
- NPS and crew perform a self-assessment of the event

Reactor Coolant System (RCS) Leakage Unusual Events

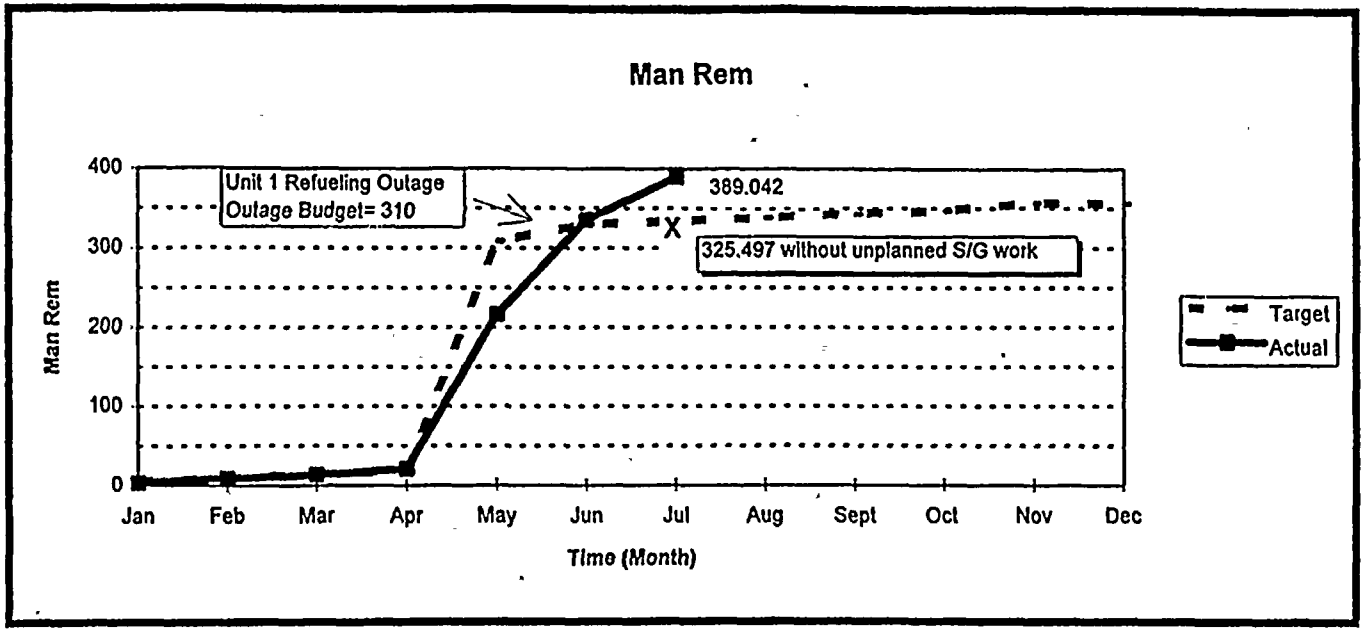
Lessons Learned

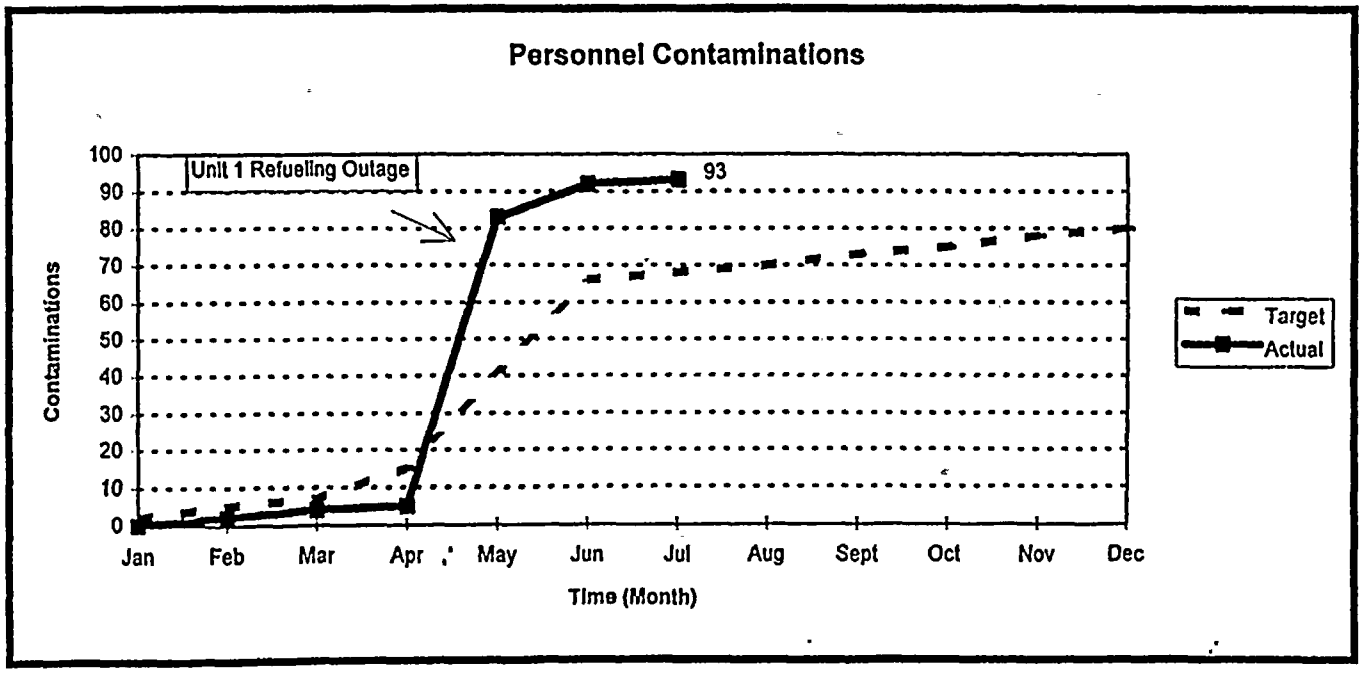
Operations:

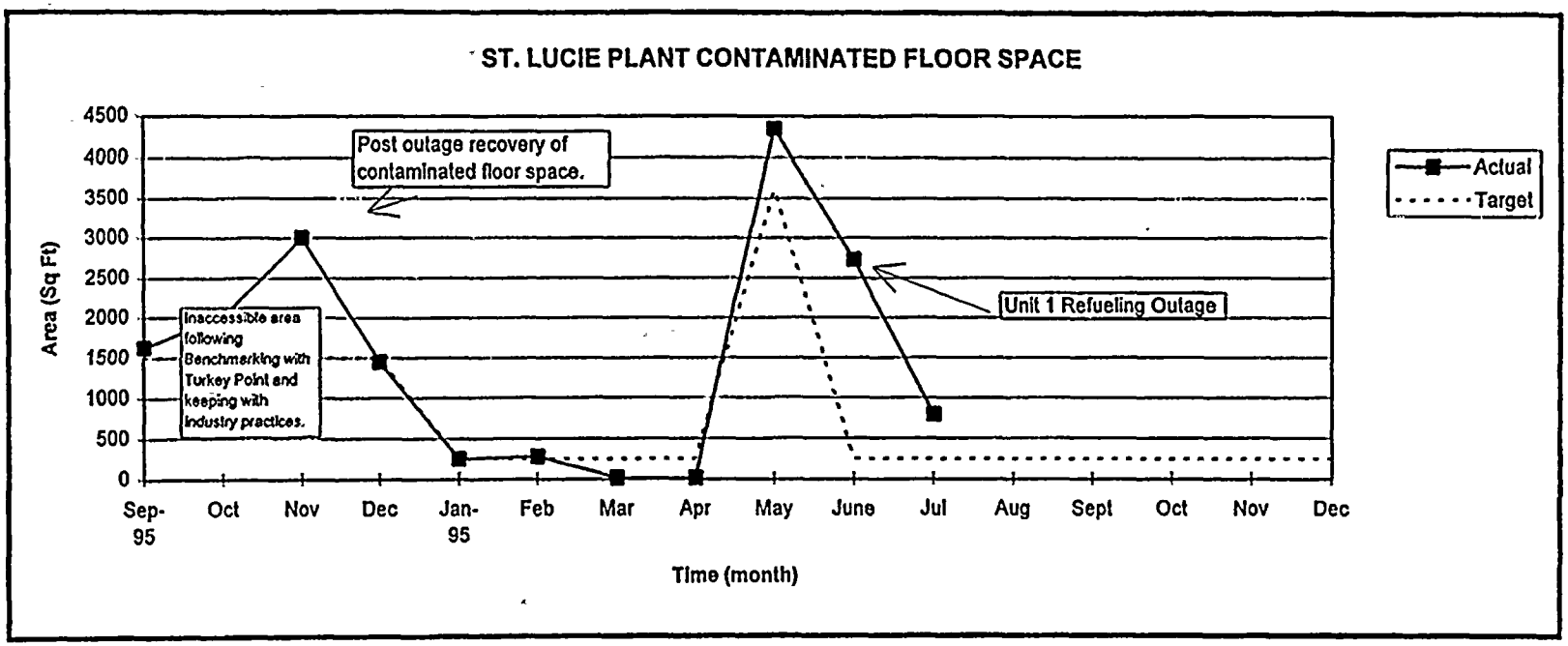
- Provide timely search for suspected RCS leakage
- Keep all crew members informed of relevant information
- Provide timely classification of event

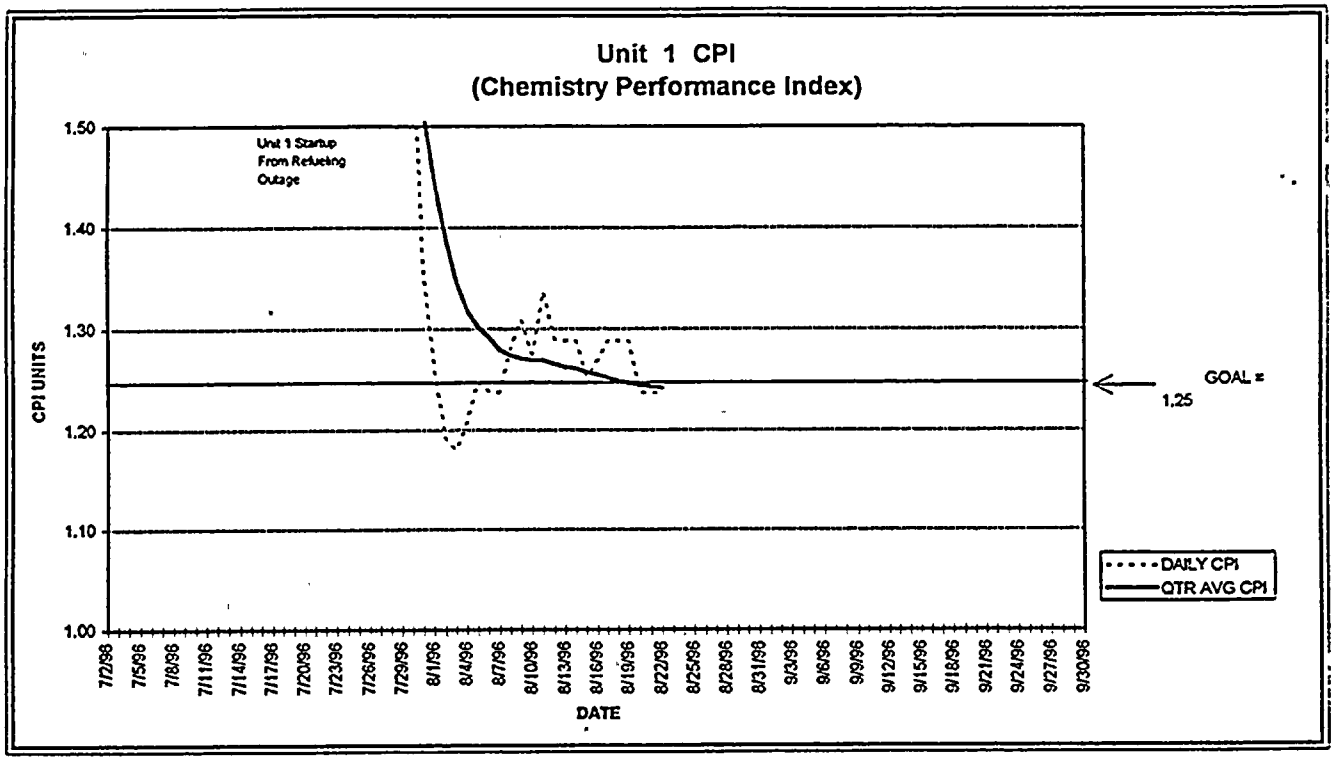
Equipment:

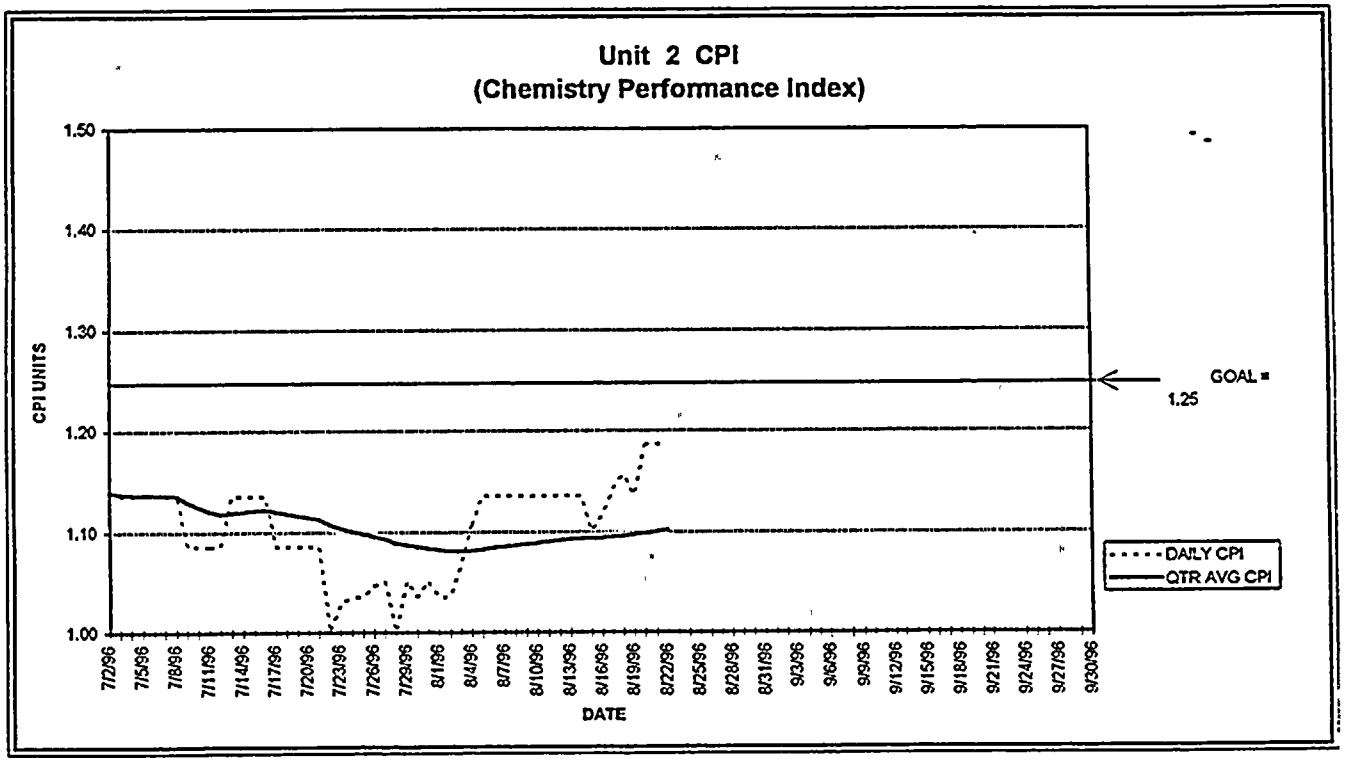
- Charging pump packing leak performance
- Check valve performance


Man Rem
Unit 1 Refueling Outage
Outage Budget= 310
389.042
325.497 without unplanned S/G work
Target
Actual
Man Rem
400
300
200
100
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sept
Oct
Nov
Dec
Time (Month)


Personnel Contaminations
Unit 1 Refueling Outage
93
Target
Actual
Contaminations
100
90
80
70
60
50
40
30
20
10
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sept
Oct
Nov
Dec
Time (Month)


ST. LUCIE PLANT CONTAMINATED FLOOR SPACE
Area (Sq Ft)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Post outage recovery of contaminated floor space.
Inaccessible area following Benchmarking with Turkey Point and keeping with industry practices.
Unit 1 Refueling Outage
Actual
Target
Sep-95
Oct
Nov
Dec
Jan-95
Feb
Mar
Apr
May
June
Jul
Aug
Sept
Oct
Nov
Dec
Time (month)


Unit 1 CPI
(Chemistry Performance Index)
Unit 1 Startup
From Refueling
Outage
CPI UNITS
1.50
1.40
1.30
1.20
1.10
1.00
GOAL =
1.25
DAILY CPI
QTR AVG CPI
7/2/96
7/5/96
7/8/96
7/11/96
7/14/96
7/17/96
7/20/96
7/23/96
7/26/96
7/29/96
8/1/96
8/4/96
8/7/96
8/10/96
8/13/96
8/16/96
8/19/96
8/22/96
8/25/96
8/28/96
8/31/96
9/3/96
9/6/96
9/9/96
9/12/96
9/15/96
9/18/96
9/21/96
9/24/96
9/27/96
9/30/96
DATE


Unit 2 CPI
(Chemistry Performance Index)
CPI UNITS
1.50
1.40
1.30
1.20
1.10
1.00
GOAL =
1.25
DAILY CPI
QTR AVG CPI
7/2/96
7/5/96
7/8/96
7/11/96
7/14/96
7/17/96
7/20/96
7/23/96
7/26/96
7/29/96
8/1/96
8/4/96
8/7/96
8/10/96
8/13/96
8/16/96
8/19/96
8/22/96
8/25/96
8/28/96
8/31/96
9/3/96
9/6/96
9/9/96
9/12/96
9/15/96
9/18/96
9/21/96
9/24/96
9/27/96
9/30/96
DATE

MAINTENANCE

Maintenance

- **Accomplishments**
  - Pressurizer Code Safety Valve upgrade
  - Steam Bypass Control Valve upgrade
- **Problem areas**
  - Charging Pump Packing Performance
  - Maintenance Rule A(1) Equipment

Pressurizer Code Safety Valves

Problem

Long standing repetitive equipment problem:

- Leakage through valve caused plant shutdowns and extended refueling outages
- Operations work around (reduced RCS operating pressure)

Actions

- Reduced nozzle tailpipe loading on valves (93-94)
- Installed flexi-disc designed internals (93-94)
- Upgraded pressurizer insulation for thermal stability (94-95)
- Replaced valves with heavy body forged valves - Unit 1 replaced in 96, Unit 2 next outage (97)

Results

- Zero RCS leakage through valves
- Eliminated operator work around and returned to full RCS operating pressure

Steam Bypass Control Upgrades

Problem

Long standing equipment problem:

- Repetitive maintenance
- Presented plant control problems to Operations

Actions

Replaced actuators (design change)

- Replaced valve trim (design change)
- Replaced valve operator
- Installed test ports for flowscan testing

Results

- Control system proven reliable during shutdowns
- Standardized equipment on both units

Charging Pump Packing Performance

Problem

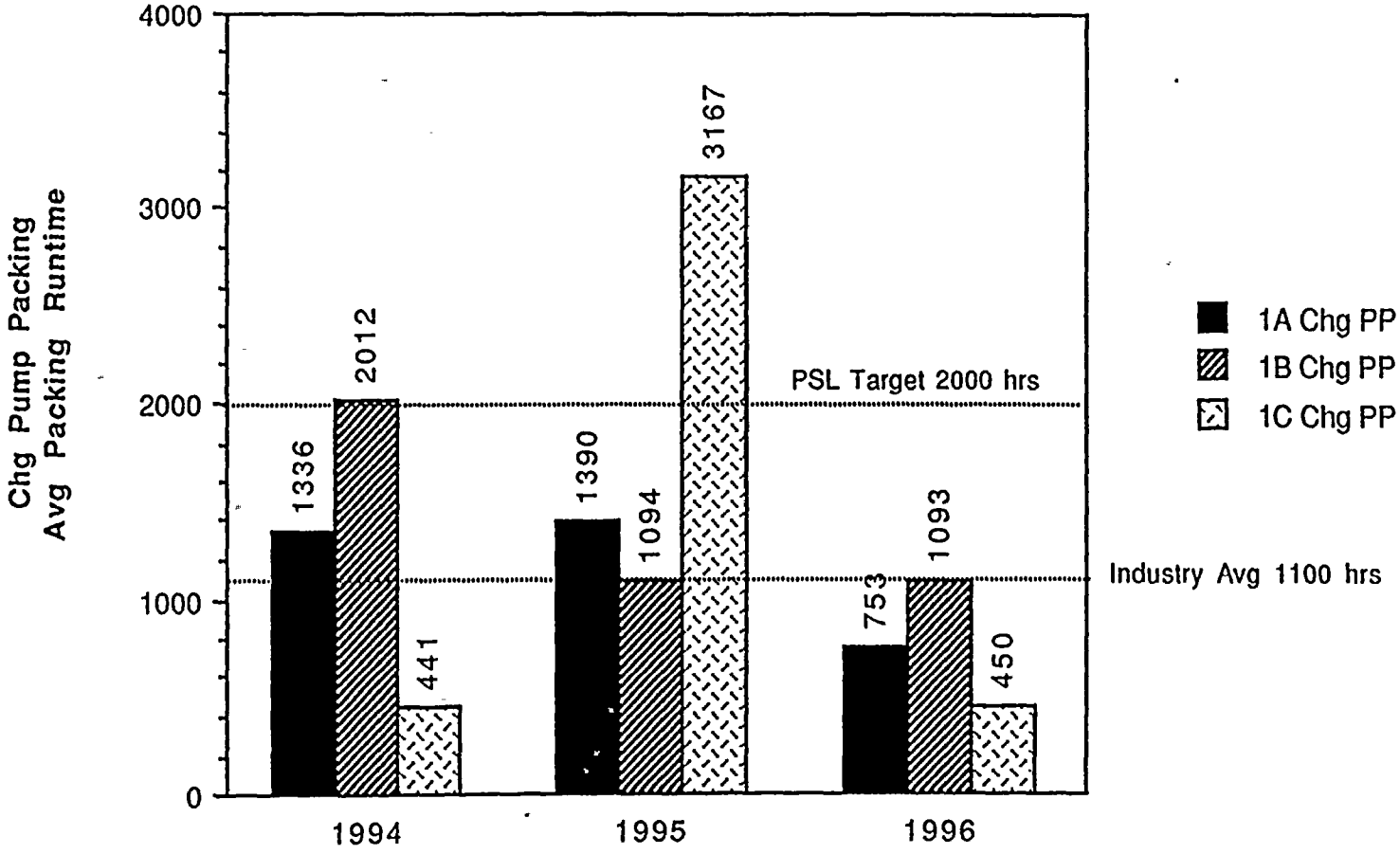
Packing leaks led to:

- Repetitive Maintenance
- Forced off-normal operations

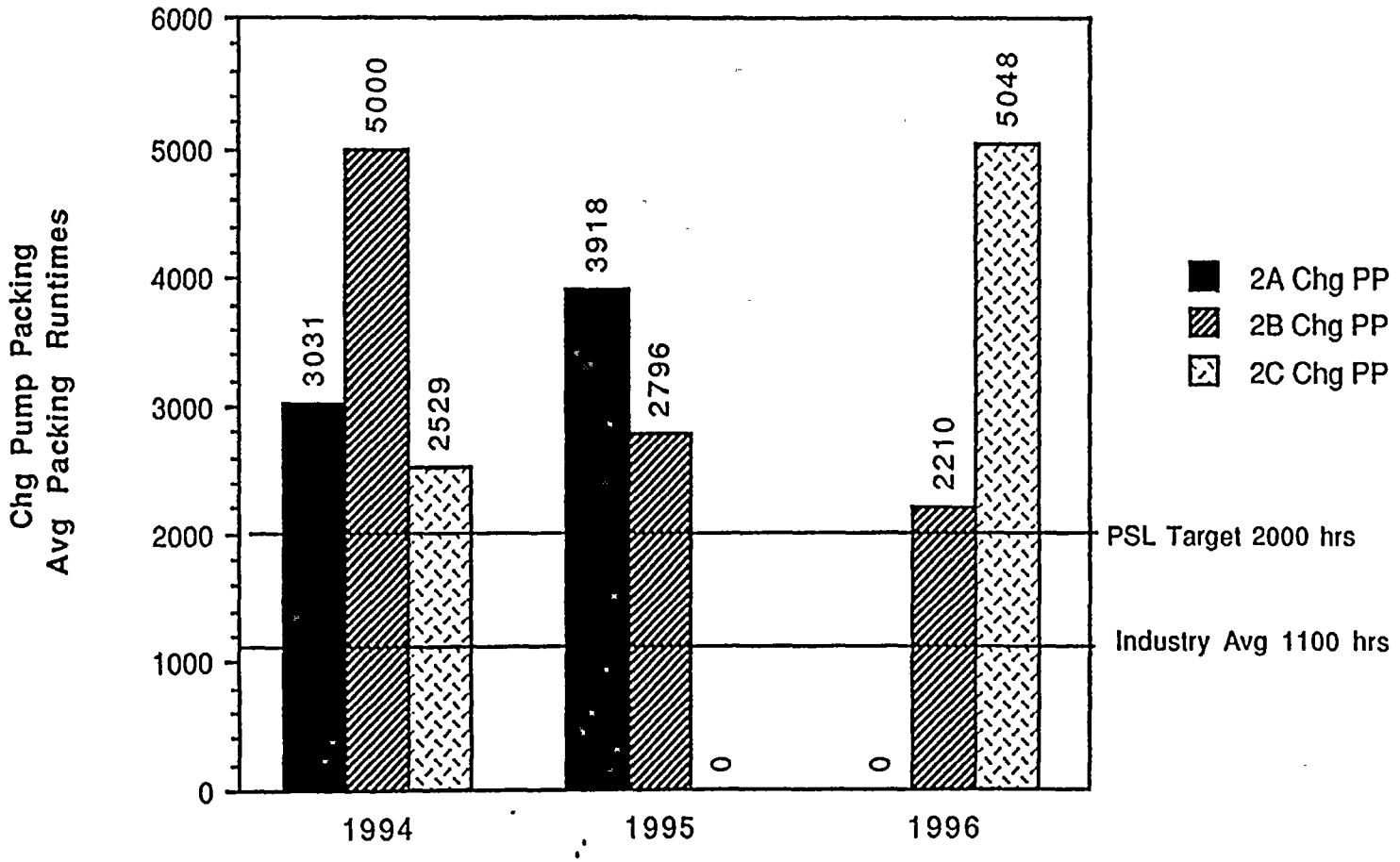
Actions

- Established repack criteria
- Operations monitoring pump seal tank level
- Formalizing repack criteria in Operations procedure
- Develop root cause of short packing life - Unit 1
- Monitor results

Unit 1 Charging Pump Packing Performance 1994 - 1996

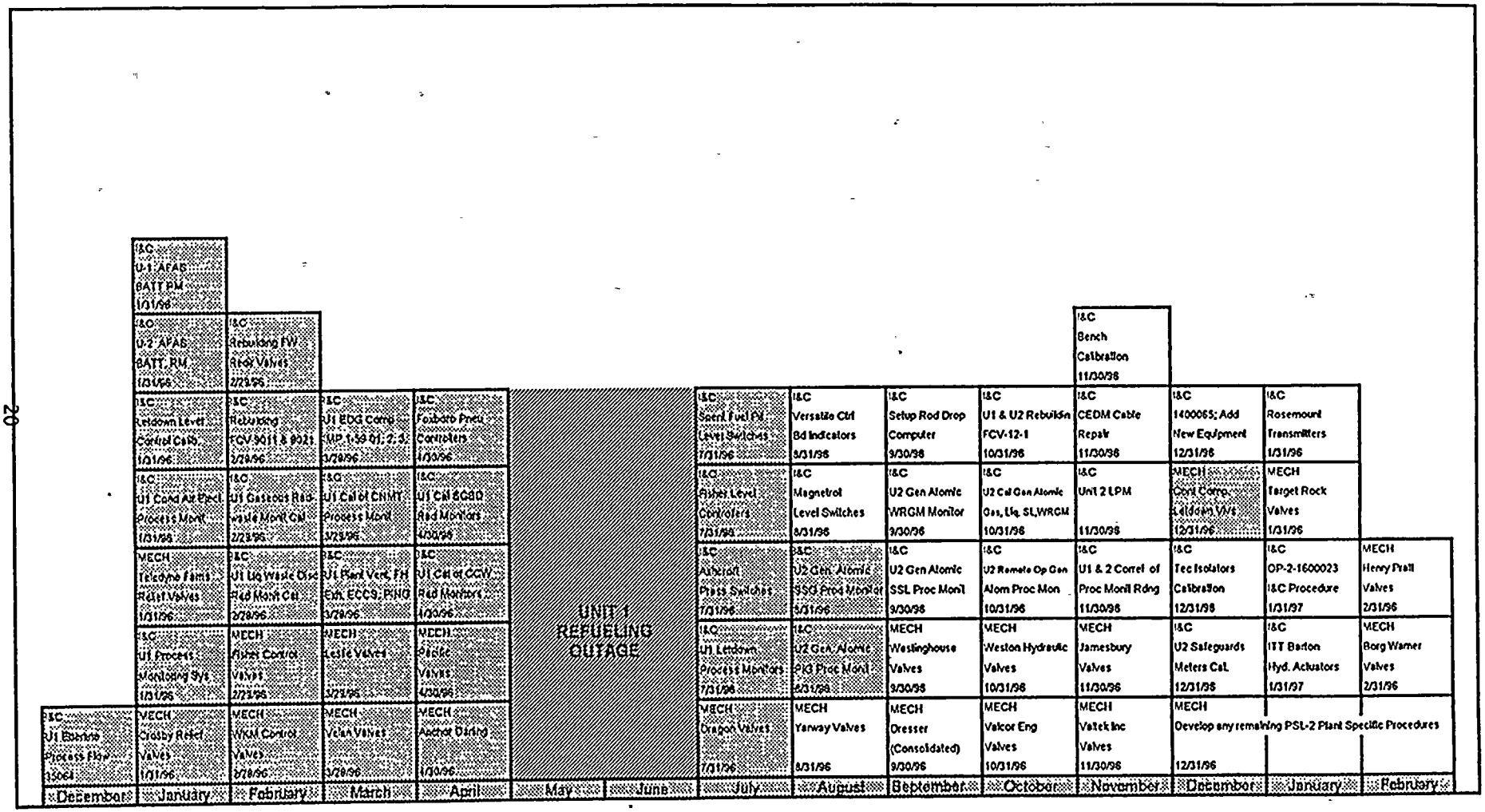


Unit 2 Charging Pump Packing Performance 1994 - 1996



ST. LUCIE PLANT
MAINTENANCE PROCEDURE UPGRADE PROJECT

TASK #1: DEVELOP PROCEDURES/GUIDELINES FOR FREQUENTLY PERFORMED MAINTENANCE ACTIVITIES WHICH CURRENTLY EMPLOY THE USE OF VENDOR TECHNICAL MANUALS

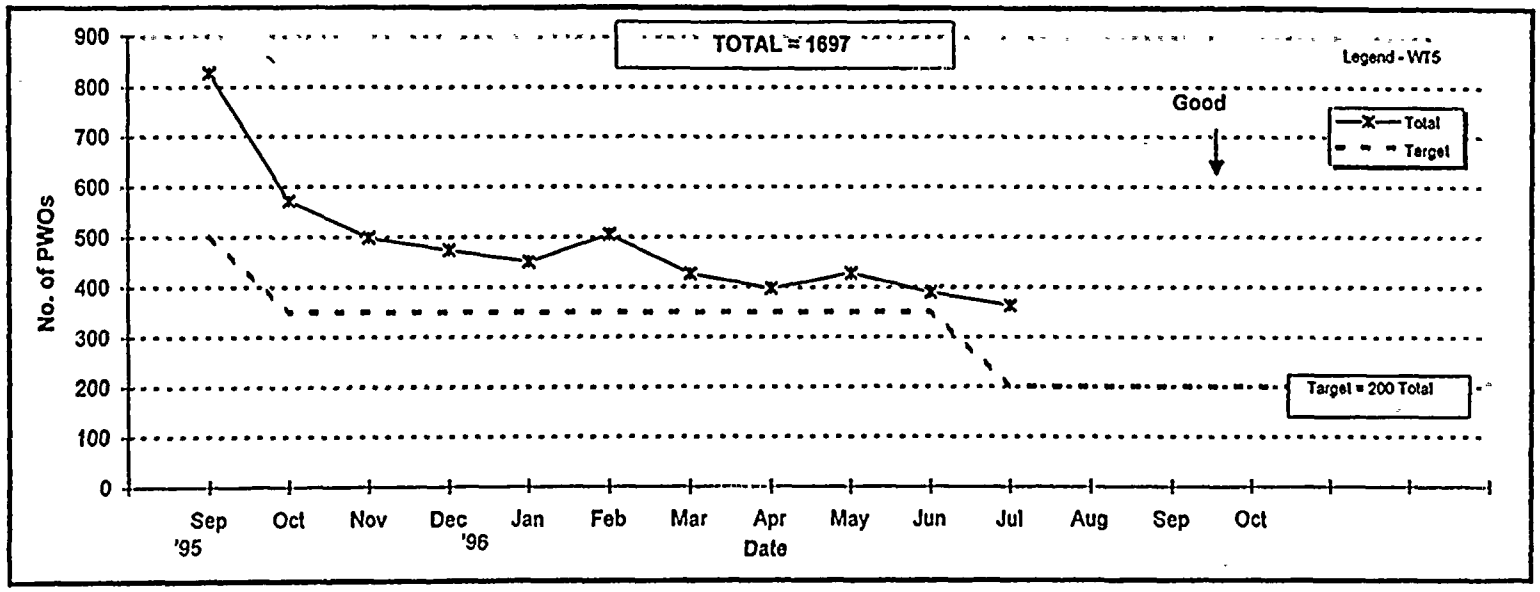


POWER BLOCK PWO BACKLOG

Joe Marchese - Maintenance

PWO Backlog:

- PWO backlog are non-outage trouble & breakdown work orders on components/equipment in the power block. Total includes all other work orders (Non T/B WO's, Outage WO's, Projects).



Data Source: Passport

SUMMARY STATUS

Discipline	Unit 1	Unit 2	Common	Total
Mechanical	42	76	12	130
Electrical	11	3	3	17
I&C	93	103	18	214
Projects	0	2	0	2
Total	146	184	33	363

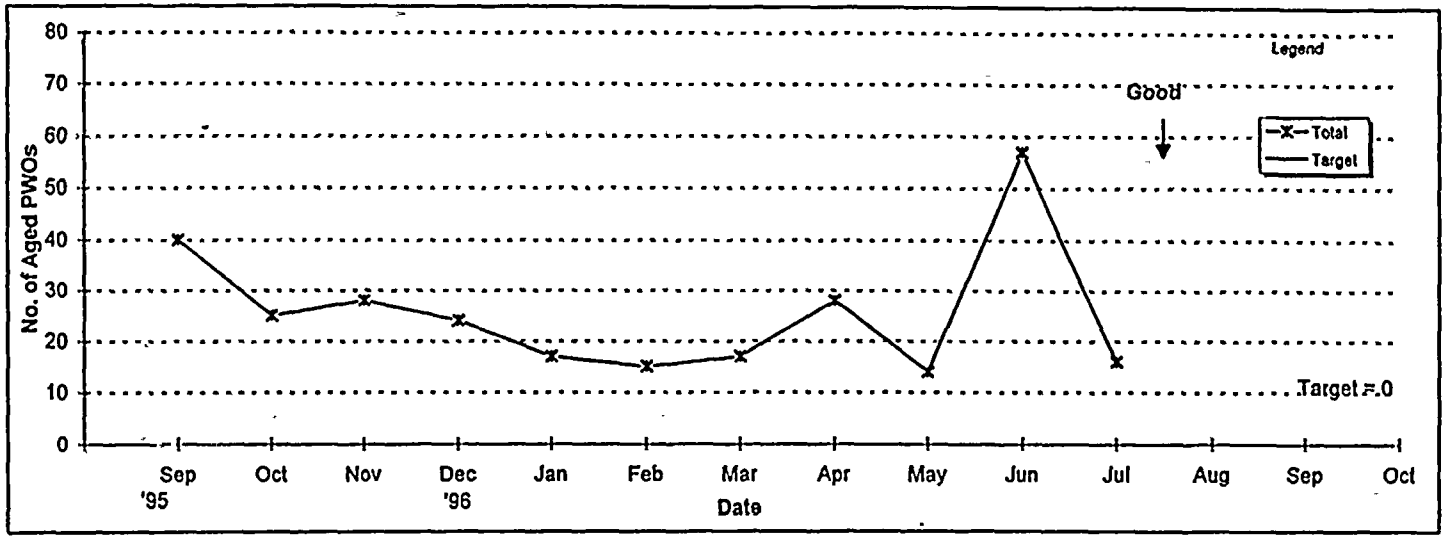
(8/23)

AGED PWOs > 12 MONTHS

Joe Marchese - Maintenance

Aged PWOs:

- Non-outage corrective maintenance work type 5 PWOs older than 12 months.



Data Source: Passport

SUMMARY STATUS

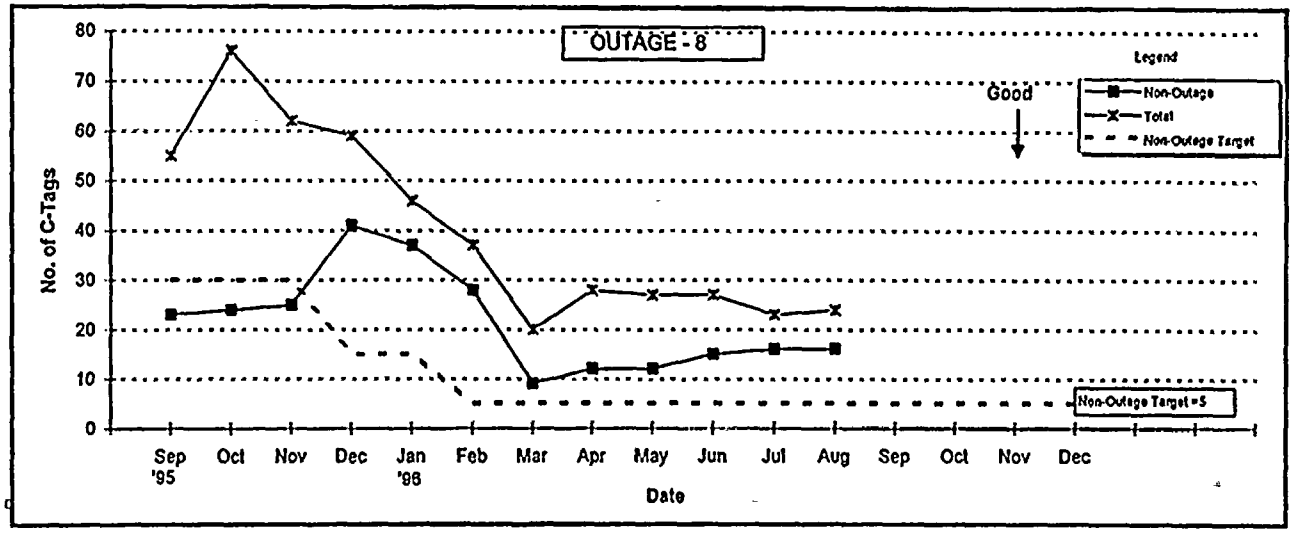
	Unit 1	Unit 2	Common	Total
Mechanical	4	4	0	8
Electrical	0	0	0	0
I&C	4	3	1	8
Construction	0	0	0	0
Total	8	7	1	16

Oldest	7/25/94	4/29/94
PWO #	0562	2990
Discipline	ROTATING	ENGR

CONTROL ROOM DEFICIENCIES (C-TAGS)

C-Tags:

- The number of Control Room/Board Green Tags. It provides an indication of the attention given to maintaining control room instruments in an operable condition.



Data: M. Willis

SUMMARY STATUS

	Non-Outage	Outage	Total
Ready to Work or Working	11	6	17
Engineering/RTA	2	0	2
AWP	2	2	4
Other Holds	1	0	1
Total	16	8	24

Oldest	3/11/96	5/5/94
PWO #	6436	3017
Discipline	I&C	I&C (OUTAGE)

ENGINEERING/TECHNICAL

Engineering/Technical

Accomplishments

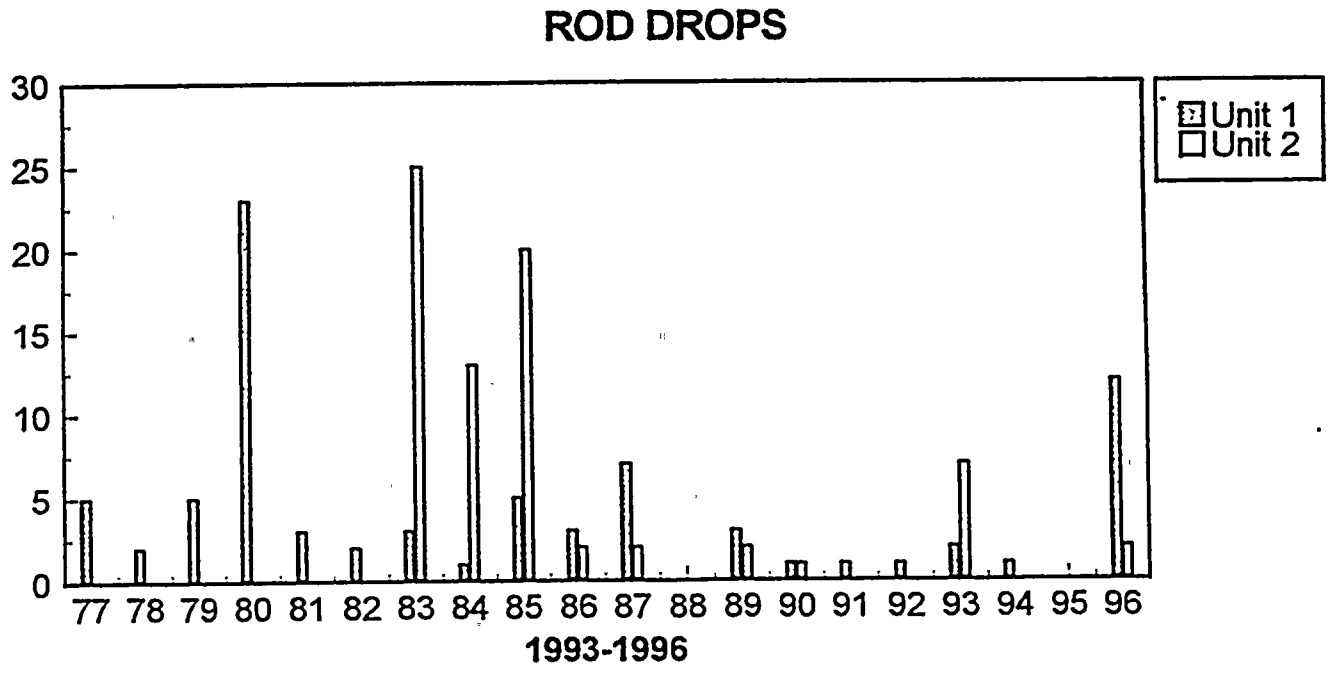
- Strengthened Temporary System Alteration process
- Plant Change modifications resolved long standing equipment issues
  - Steam Bypass Control System
  - Pressurizer Code Safeties

Problem areas

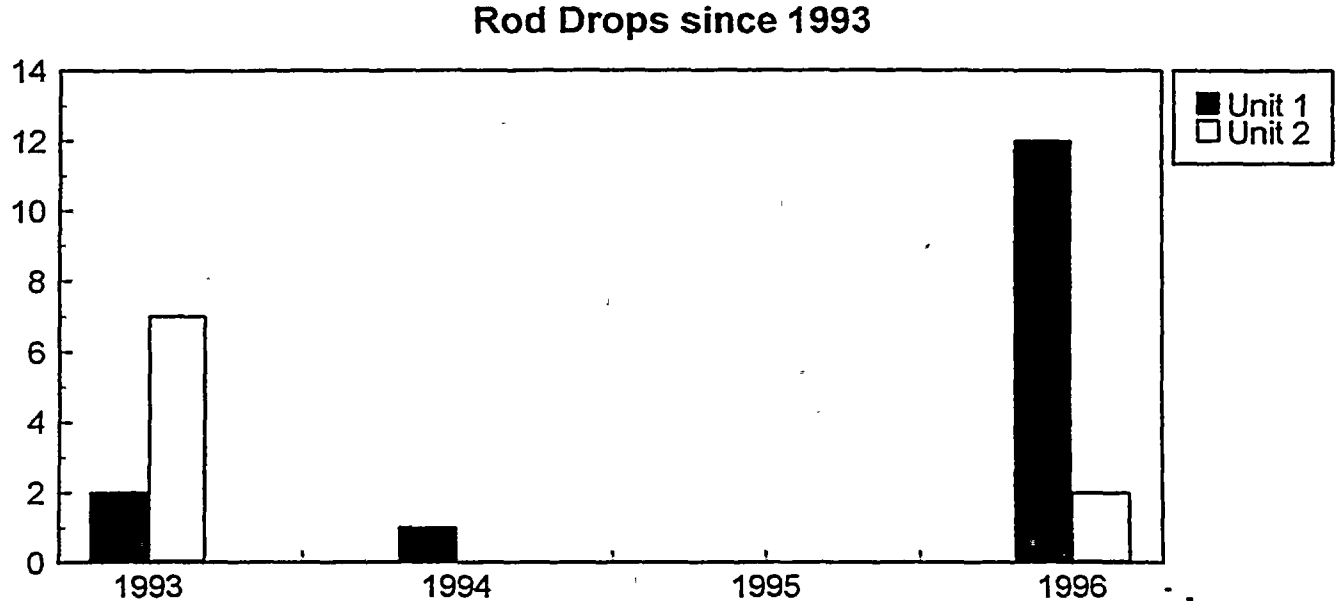
- Control Element Assembly Drive System
- Nuclear Instrumentation System Upgrade
- FSAR Status

Control Rod Element Drive System

- System Assessment
  - 3 year performance reviewed
  - Rod drop events - too high



Control Rod Element Drive System



- Post 1993 Analysis
  - Most drops have occurred on Unit 1
  - Majority of Unit 1 drops in the 1996 refueling
  - Drops related to:
    -Mechanical sluggish grippers (6)
    -Timing Module failure (2)

Control Rod Element Drive System

- Corrective actions taken
  - Established Procedures and Preventive Maintenance
    - Weekly I&C system inspections
    - Increased refueling testing
  - Initiated refurbishment program for known aged electronic components
- Corrective actions planned
  - Review needs for additional preventive activities
    Coil Trending Program (12/30/96)
    Enhanced flushing procedures (9/30/96)
  - Review remaining electronics for additional refurbishment needs (4/15/97)
  - ACTM modification - Unit 1 (Refueling 1997)

Nuclear Instrumentation (NI) System Upgrade

- Replacement project initiated for Units 1 & 2 - Fall, 1994
- Unit 2 installation - Fall, 1995 - No problems during installation and subsequent good performance
- Unit 1 Installation - 1996 - numerous installation and design problems
- Most significant problem discovered on July 30 with the Unit at 100% power - upper and lower detector signals on power range channels found to be reversed
- Error traced to inadequate design preparation and verification, and testing weaknesses

Nuclear Instrumentation (NI) System Upgrade

Summary of problems

- Design Preparation
  - Conflicting information on existing plant drawings not identified and resolved
  - Similarity between Units 1 & 2 assumed
- Design Verification
  - No point to point wiring verification
  - Verification performed by several individuals
- Post modification testing
  - Detector inputs to axial shape index (ASI) not identified as a critical function
- Power ascension program
  - Target or expected ASI not provided in test data or trended during program
  - Inconsistent trends in ASI behavior observed by operating crew but not adequately pursued

Nuclear Instrumentation (NI) System Upgrade

Corrective Actions

Immediate

- Corrected wiring and documentation errors
- Verified that operation in the as found condition was bounded by the safety analysis

Longer term

- Validate outstanding safety related PC/Ms involving wiring changes - 10/31/96
- Procedure changes to require all critical functions to be tested during PMT - 9/30/96
- Strengthen requirements for verification process - 9/30/96
- Require same level of verification on duplicate packages - 9/30/96
- Provide target ASI for power ascension program - 1/15/97
- Place accountability with Reactor Engineering for performance of instruments used to monitor core - 10/31/96

Updated Final Safety Analysis Report

Assessment Status

Background

- Commitment to review FSARs and plant procedures for consistency - corrective action from boron dilution event identified in FPL violation response

Status

- Procedure development process change to improve reference to FSAR and Technical Specifications
- 30% of Unit 1 & 2 FSAR review complete
  - Approximately 500 editorial findings
  - Approximately 150 findings were not safety significant, but required operability assessment

Schedule

- Review will be complete by 12/31/96
- Changes will be incorporated in the FSAR with the next routine update (U2 - 12/97; U1 - 6/98)
- Procedure changes will be completed based on their significance, but no later than the next required procedure review

Anchor-Darling Piston Check Valves

Problem:

2C Charging Pump Discharge Check Valve (V2167) Stuck Open

Evaluation:

- Machining anomalies identified within installed valve
- Valve replaced with spare and returned to service
- Pulsating service, long periods of operation, constant flow and machining anomalies identified as causal factors
- Operability review completed for Unit 1 & 2 applications (17 valves total, 6 in Unit 1, 11 in Unit 2)

Generic Actions:

- All 49 spare 2" ADV piston check valves in Stores inspected, majority found with machining anomalies
- Vendor reported under 10CFR21, FPL notified industry
- Further review identified fretting wear as apparent cause
- Anchor-Darling valve design review and industry application review requested and currently ongoing
- Material changes/reduced port valve may be recommended

Inspection Results for Installed 2" ADV Piston Check Valves (As of 8-26-96)

Unit 1 Applications			
Tag	Location	Installed	Serial #
V02133	Chg PP 1B discharge	1996 RO	ET401-9-3
V02134	Chg PP 1C discharge	1993 RO	E-T401-9-13
V3113	HPSI feed to Loop 1A2	1996 RO	E-T401-9-8
V09305	AFW PP 1A discharge recirc to CST	1996 RO	E-T401-8-1
V18193	IA supply to RCB	1996 RO	E-Z600-2-2
V18195	IA supply to RCB, P-9	1994 SNOW	E-T488-5-2

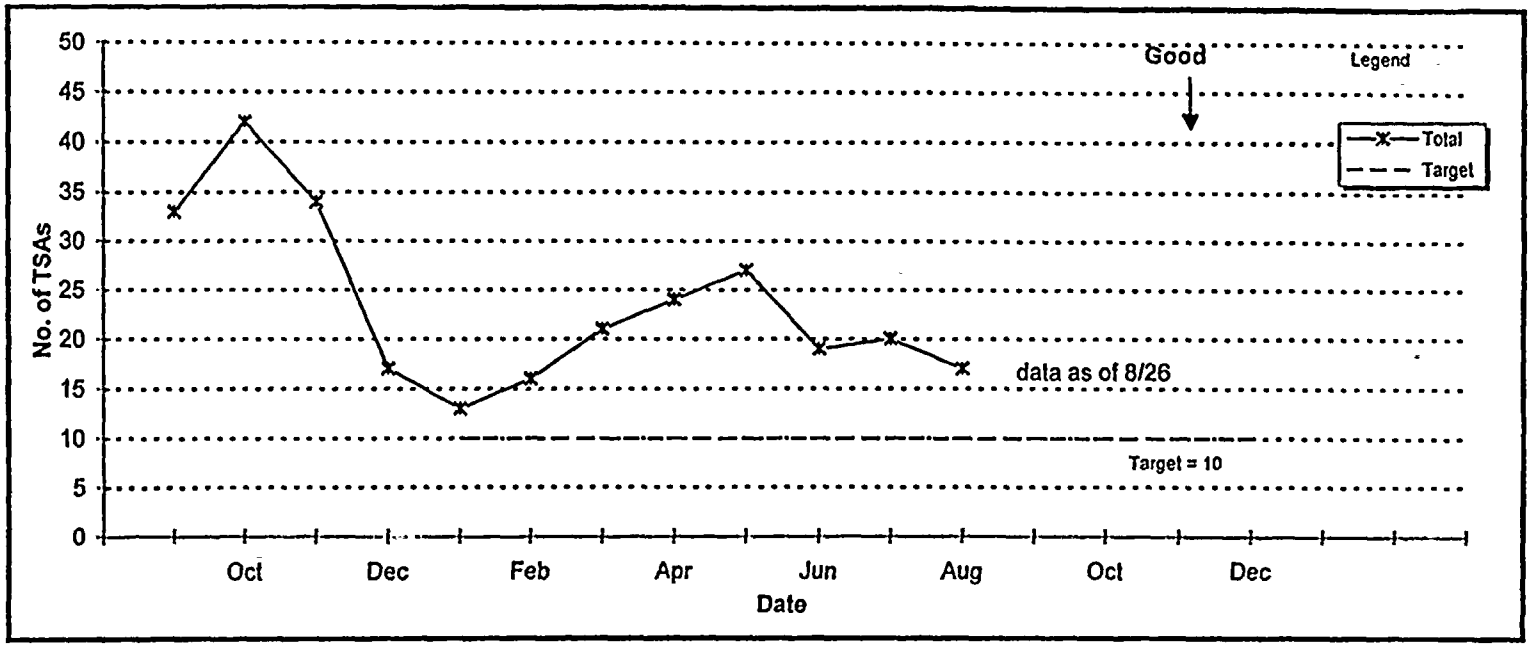
Unit 1 Inspection Results		
PWO/CWO	Schedule	Results
8101-96018488 8109-96018508	Complete	Minor Fretting, Use As Is
8100-96018487 8102-96018493	Complete	Minor Fretting, Bonnet Galled, Valve Replaced
WR 96013145	RO	Pending
WR 96013146	RO	Pending
WR 96013147	RO	Pending
WR 96013148	RO	Pending

Unit 2 Applications			
Tag	Location	Installed	Serial #
V2167	Chg PP 2C discharge	1994 RO	E-T401-9-19
V2168	Chg PP 2B discharge	1994 RO	E-T401-9-21
V2169	Chg PP 2A discharge	1995 RO	E-T401-9-38
V2462	Chg Common Header to Regen HX Inlet	1995 RO	E-T401-9-16
V07141	CS PP 2A Recirc to RWT	1994 RO	E-T401-9-20
V3104	LPSI PP 2A recirc to RWT	1994 RO	E-T401-9-10
V3102	HPSI PP 2A recirc to RWT	1994 RO	E-T401-9-9
V3103	HPSI PP 2B recirc to RWT	1994 RO	E-T401-9-17
V15328	Primary makeup water to RCB, P-7	1994 RO	E-T401-9-24
V18193	IA supply to RCB (NNS)	1995 RO	E-T401-1-6
V181270	SA supply to RCB, P-8	1995 RO	E-T488-5-1

Unit 2 Inspection Results		
PWO/CWO	Schedule	Results
7220-96018092 7221-96018198	Complete	Fretting, Valve Replaced
7223-96018489 7226-96018522	9/7/96	Pending
7224-96018491 7225-96018521	Complete	Minor Fretting, Use As Is
WR 96013149	RO	Pending
WR 96013150	RO	Pending
WR 96013151	RO	Pending
WR 96013152	RO	Pending
WR 96013153	RO	Pending
WR 96013154	RO	Pending
WR 96013155	RO	Pending
WR 96013156	RO	Pending

RO: Inspection Scheduled for Refueling Outage

TEMPORARY SYSTEM ALTERATIONS (TSA)



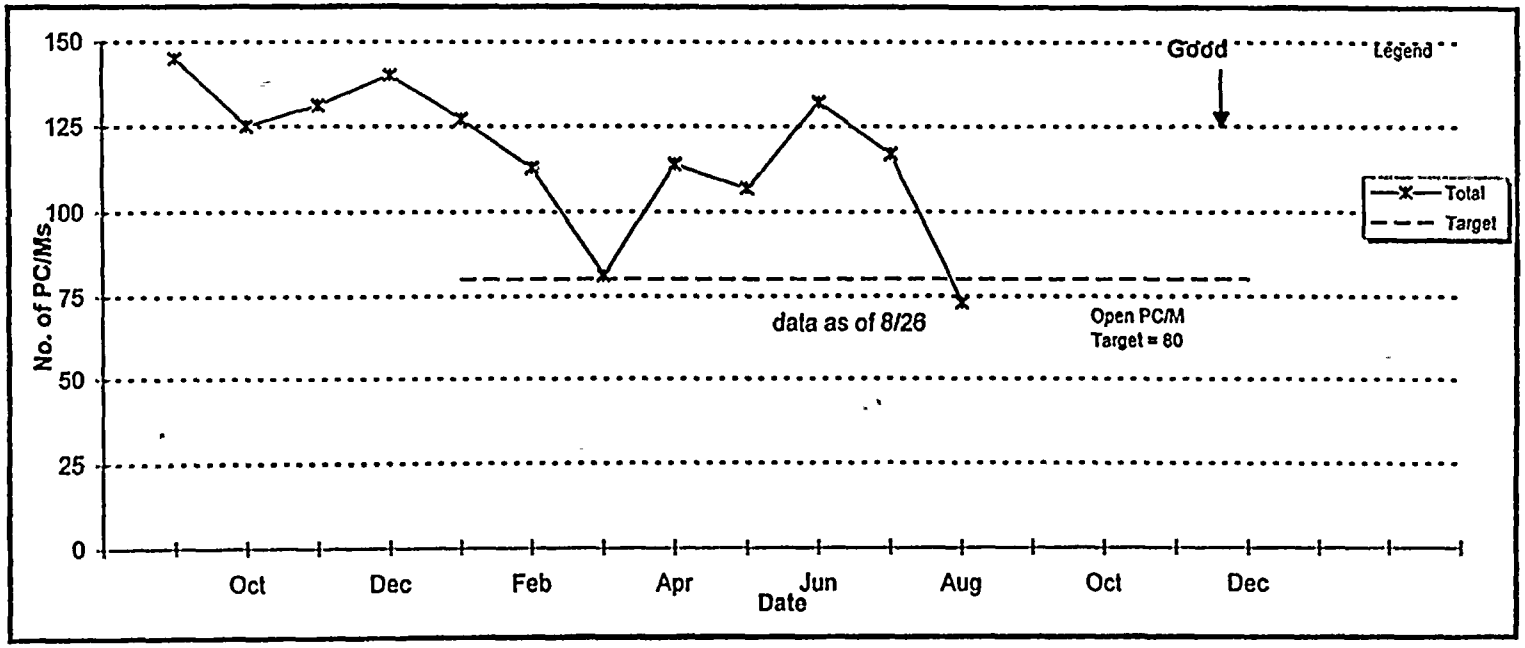
Data Source: Kris Mohindroo

SUMMARY STATUS

Discipline	Unit 1	Unit 2	Total
Mechanical	2	0	2
Electrical	0	2	2
I&C	5	2	7
Engineering	0	2	2
Operations	0	1	1
Health Physics	0	0	0
MP	1	2	3
Preventive Maint	0	0	0
SCE	0	0	0
Total	8	9	17

Oldest TSA	11/17/95	5/10/94
Discipline	I&C	I&C

PLANT CHANGE/MODIFICATIONS



Data Source: Kris Mohindroo

STEAM GENERATOR PROJECT

Steam Generator Project

Replacement schedule

Implementation: Now scheduled for October 1997

- Milestones Completed:
  - Implementation engineering, June 1995
  - Engineering Package FRG approved, April 1996

- Significant work to go
  - Complete rigging engineering, May 1997
  - Complete SGRP engineering document reconciliation, July 1997

Steam Generator Project

Replacement generator fabrication

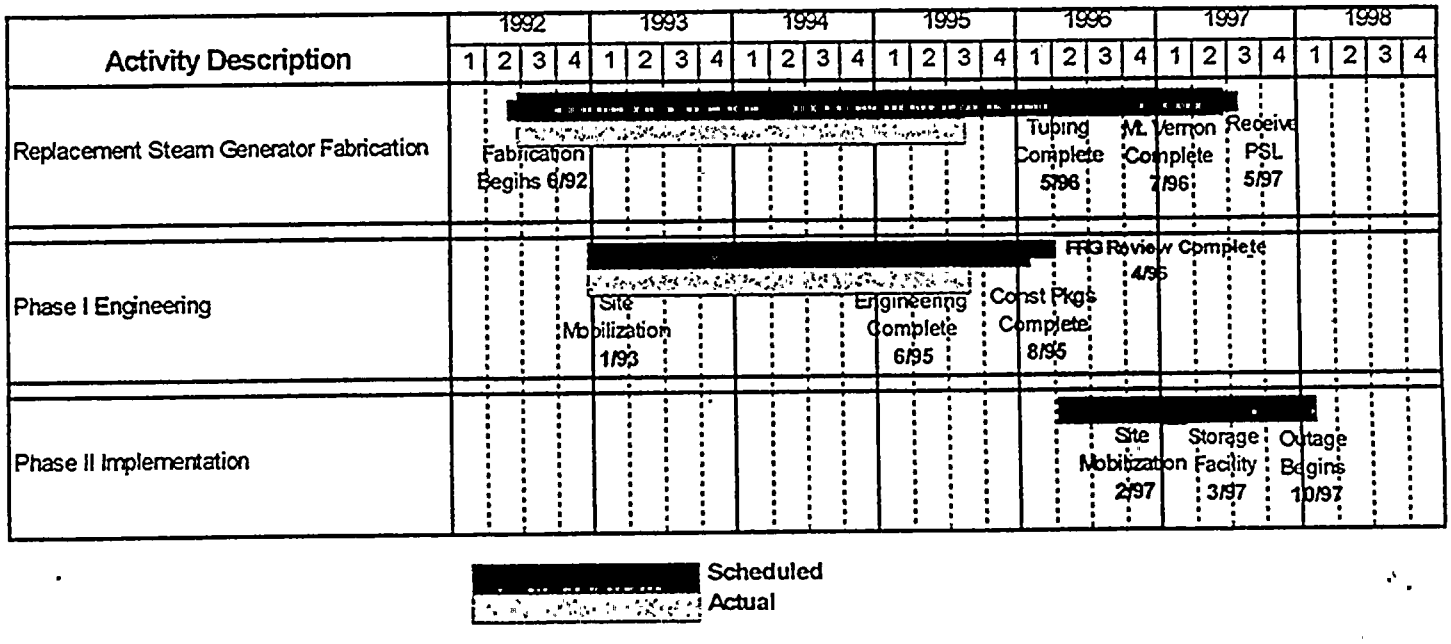
Scheduled to arrive on site, May 1997

- Milestones Completed
  - Lower assemblies, June 1996
  - Steam drum assemblies, June 1996

- Significant work to go:
  - Fit-up and weld drums to lower assemblies, November 1996
  - Electro polish primary bowls, February 1997
  - Secondary hydro test, March 1997

Steam Generator Project

Project Schedule



Steam Generator Project

Incorporate Non-S/G work

- Identify and obtain management approval for all Projects
  - September, 1996
- Identify Major Maintenance work
  - September, 1996
- Incorporate Approved work into Schedule
  - October, 1996
- Freeze Outage Scope!
  - January, 1997

Staffing Plan

- Establish "Core" group FPL supervision
  - October, 1996
- Execute SGRP Contractor & FPL approved Staffing plan
  - February 1997 to Completion

Steam Generator Project

Facility Plan

- Revise site plan for Replacement Project Team
  - Utilize North Service Bldg (Occupy by 1/1/97)
  - Consolidate project organization to one location
  - Control contractor personnel

Training Plan

Establish SGRP Indoctrination Program

- Train FPL Project Team.....
  - Engineering Packages
  - PWO Packages
  - Observe & Evaluate Point Beach SGRP

- Team Building - with station organization
  - Better interdepartmental Coordination
  - Establish & communicate functional accountabilities

SERVICES

Services

Accomplishments

- Reduced number of outstanding temporary changes to procedures
- Established Configuration Control Group/mission/process
- Implemented improved PC/M closure process
- Initiated real time support list for minor modifications
- Identified Unit 2 outage top 20 modifications

Problem Areas

- Improve quality of procedures
- Centralize procedure upgrade effort
- High volume of material reviewed by FRG
- Implement self assessment program for Training
- Back to basics in all training programs
- Elevate training standards/reinforcement

Training Department

Problem areas

- Expectations not clear
- Behind industry standards
- Lack of proactiveness

Training Department

Accomplishments

- Reorganized department to establish clear lines of responsibility
  - Established Assessment Group
  - Self-assessment
  - Real time training coach
  - Configuration control
- Gave clear expectations followed by several teamwork sessions
- Met with customers (Operations & Maintenance) to establish rapport
- Commenced benchmarking with Turkey Point
- Site VP met with staff in small groups
- Focus activities to meet real time plant needs
- Rewarding innovation/excellent performance

Training Department

Current new initiatives

- Continue to attack weak plant areas
  - Procedural adherence
  - Planning ahead
  - Attention to detail
  - Working together
- Increase proactive level
  - In-field monitoring
  - Catch problems while they are still small
- World-class performance every day
  - Enforce the highest standards - never let up
  - What's important now (WIN) - fundamentals

CORRECTIVE ACTION PROGRAM

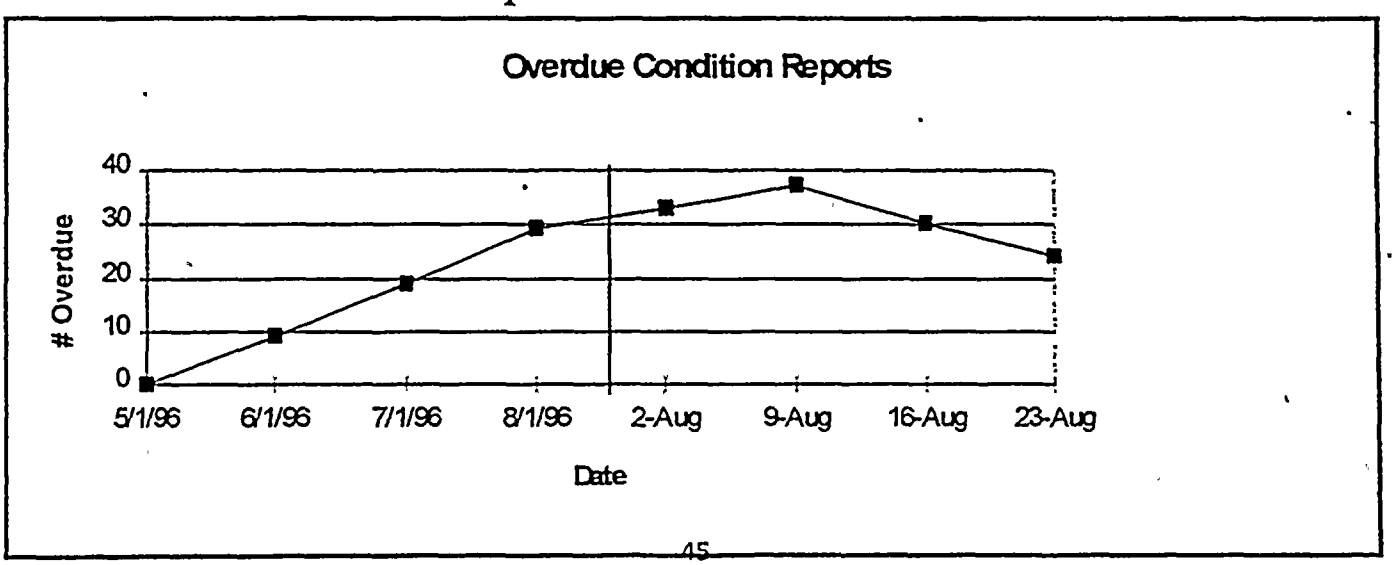
Corrective Action

Accomplishments

- Upgraded process to specify root cause effort expected
  - Linked Condition Report (CR) procedure to site root cause procedure
  - Defined levels of significance/root cause

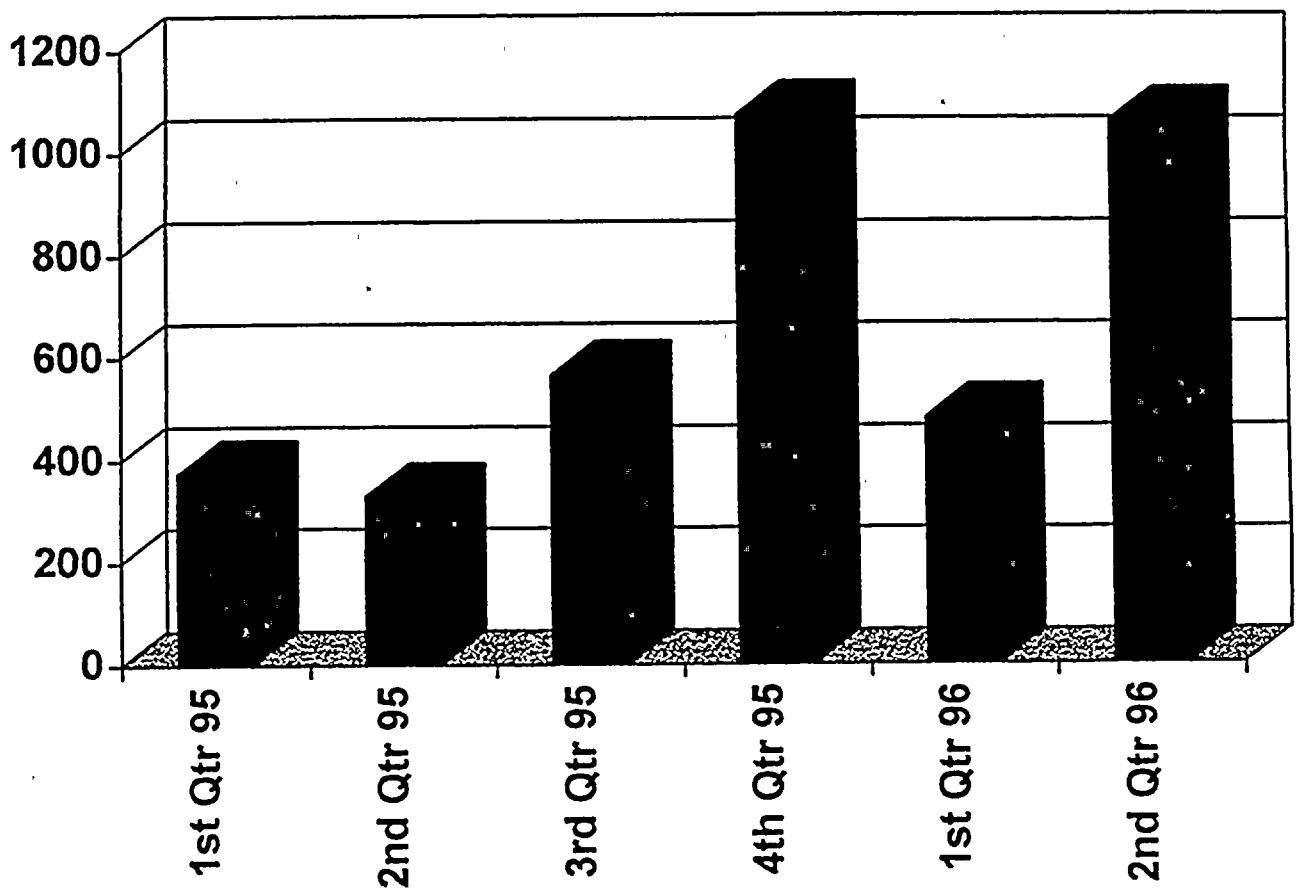
Problem Areas

- Root cause knowledge across the plant is insufficient
- Trending ability limited until history is accumulated
- Overdue Condition Reports



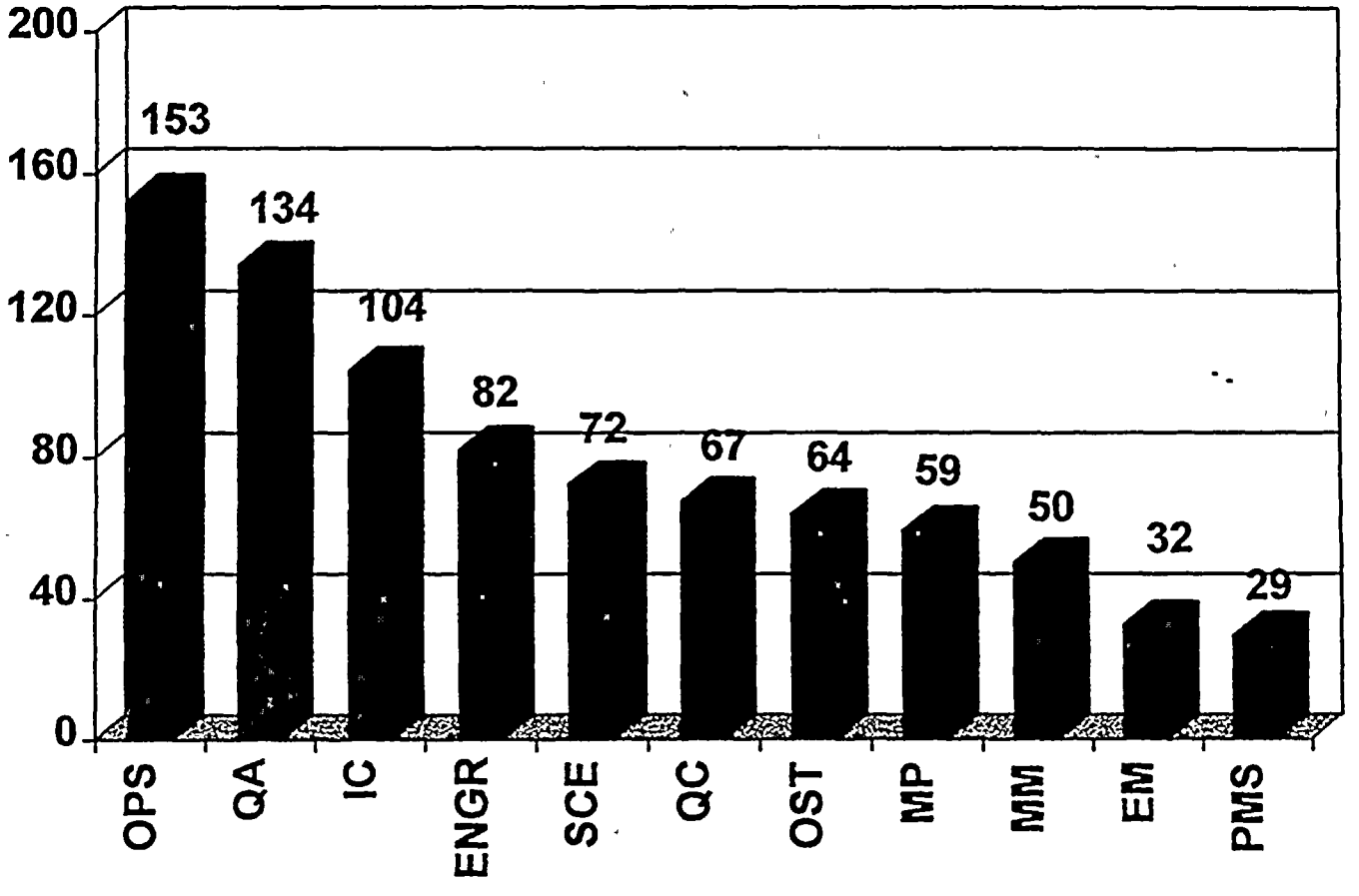
Corrective Action

CRs Generated by Quarter



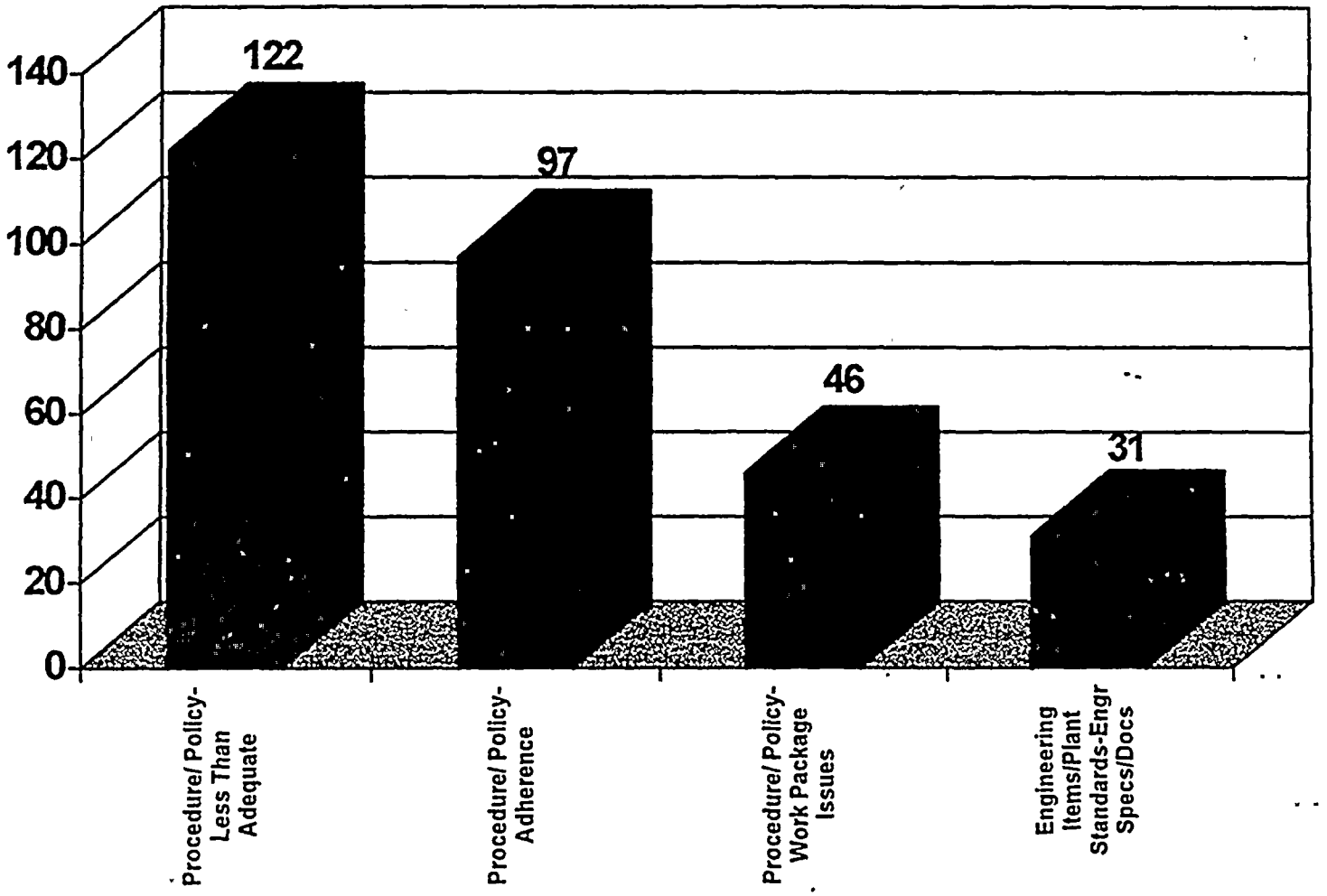
Corrective Action

CRs Stratified by Initiating Department
2nd Quarter



Corrective Action

Event Initiator Analysis
2nd Quarter



QUALITY ASSURANCE

Quality Assurance

- **Overall Assessment**

– Corrective Action is still considered a limiting weakness and requires continued management attention
  - Personnel error, attention to detail, and procedural adherence are focus areas of consideration
  - Less than adequate determination of underlying causal factors
  - 14 findings responses were late to QA due to process change with site VP sign off. Rejected by site VP due to shallowness of response

- **Quality Assurance daily reports to plant management and staff**

– Timely quality issues raised by QA/QC
– Condition reports (15) written immediately for resolution
  - Examples:
    - Bypassed QC hold point on bolting inspection
    - Unit 1 containment purge valves inoperable
    - Loose debris control for Unit 1 Containment in Mode 3

Quality Assurance

- **Quality Assurance audits**

  - Emergency Preparedness (3 Findings, corrective actions, training, administration)

  - Corrective Action (2 Findings, overdue CRs, inadequate risk assessment)

  - Maintenance Rule Implementation (1Finding, revision control, vendor interface, drawing control)

  - Vendor Technical Manuals (6 Findings, revision control, vendor interface, drawing control)

  - Performance Monitoring (3 Findings, FSAR requirements, overtime, procedure non-compliance)

  - Design Control (3 Findings, PC/M interface control)

Quality Assurance

- **Facilitation of Self-Assessment**
  - Phase I, problem areas, completed July 31, 1996
  - Phase II, causal factors, complete by August 30, 1996
  - Phase III, limiting weakness, complete by September 13, 1996
  - Phase IV, corrective actions, complete by October 11, 1996
  - Phase V, implementation and monitoring, start October 14, 1996

- Conducted 2nd Workshop on Self-Assessment and Event Analysis
  - Bill Corcoran, Ph.D.,P.E. (CNRB outside FPL member)
  - August 21, 1996, 140 participants (PSL,PTN,JB)
  - Stressed fundamentals of event evaluation, corrective action and self assessment