UNITED STATES



NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TEXAS 76011-8064 SEP - 8 1997

Gregory M. Rueger, Senior Vice President and General Manager Nuclear Power Generation Bus. Unit Pacific Gas and Electric Company Nuclear Power Generation, B14A 77 Beale Street, Room 1451 P.O. Box 770000 San Francisco, California 94177

SUBJECT: SUMMARY OF MEETING WITH PACIFIC GAS & ELECTRIC COMPANY (DIABLO CANYON) ON AUGUST 7, 1997

Dear Mr. Rueger:

A management meeting, open to public observation, was conducted on August 7, 1997, in the NRC Region IV office. This meeting was conducted at your request to discuss the status of your programs in the engineering and maintenance areas. A listing of those attending the meeting is provided in Enclosure 1. The documents used in your staff's presentation are provided in Enclosure 2.

In the engineering area, the discussions were beneficial in understanding your efforts to address the workload, modify processes to improve efficiency, consolidate resources, and more promptly resolve identified problems. In the maintenance area, we note your efforts to trend performance indicators and to improve the balance-of-plant material condition. The performance of self-evaluations and the evaluation of further improvements (such as consolidation of some outage services functions, expanded use of the fix-it-now teams, use of cross-functional maintenance teams, and re-engineering of the work control process) were also discussed. We encourage your continued efforts to improve performance in these areas at the Diablo Canyon facility.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter will be placed in the NRC's Public Document Room.

Sincerel **ビビリ5川** Thomas P. Gwynn, Directo Division of Reactor Projects

Docket Nos.: 50-275 50-323 License Nos.: DPR-80 DPR-82





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bcc with Enclosure 2: DCD (IE45) RIV File WCFO File

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bcc distrib. by RIV without Enclosure 2: Regional Administrator DRP Director Branch Chief (DRP/E, WCFO) Senior Project Inspector (DRP/E, WCFO) M. Hammond (PAO, WCFO)

Resident Inspector DRS-PSB MIS System Branch Chief (DRP/TSS)

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Enclosures:

1. Attendees

2. Presentation Documents

cc w\enclosures: Dr. Richard Ferguson Energy Chair Sierra Club California 1100 llth Street, Suite 311 Sacramento, California 95814

Ms. Nancy Culver San Luis Obispo Mothers for Peace P.O. Box-164 Pismo Beach, California 93448

Chairman San Luis Obispo County Board of Supervisors Room 370 County Government Center San Luis Obispo, California 93408

Mr. Truman Burns\Mr. Robert Kinosian. California Public Utilities Commission 505 Van Ness, Rm. 4102 San Francisco, California 94102

Robert R. Wellington, Esq. Legal Counsel Diablo Canyon Independent Safety Committee 857 Cass Street, Suite D Monterey, California 93940

Mr. Steve Hsu Radiologic Health Branch State Department of Health Services P.O. Box 942732 Sacramento, California 94234

Christopher J. Warner, Esq. Pacific Gas and Electric Company P.O. Box 7442 San Francisco, California 94120

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Pacific Gas and Electric Company

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Robert P. Powers, Vice President and Plant Manager Diablo Canyon Power Plant P.O. Box 56 Avila Beach, California 93424

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Managing Editor Telegram-Tribune 1321 Johnson Avenue P.O. Box 112 San Luis Obispo, California 93406 -3-

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SEP - 8 1997

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ATTENDEES AT NRC/PG&E MEETING AUGUST 7, 1997

<u>NRC</u>

K. Perkins, Director, Walnut Creek Field Office

W. Bateman, Director, Project Directorate IV-2, NRR

D. Chamberlain, Deputy Director, Division of Reactor Safety

H. Wong, Chief, Reactor Projects Branch E

D. Powers, Chief, Maintenance Branch

T. Stetka, Acting Chief, Engineering Branch

D. Proulx, Resident Inspector (River Bend)

Pacific Gas & Electric Company

L. Womack, Vice President, Nuclear Technical Services

D. Miklush, Manager, Engineering Services

J. Tomkins, Acting Manager, Nuclear Safety Assessment and Licensing

D. Oatley, Manager, Maintenance Services

T. King, Director, Technical Maintenance

R. Waltos, Director, Engineering Services

C. Belmont, Director, Operations and Strategic Program Quality

T. Grebel, Director, Regulatory Services

D. Lopez, Regulatory Services

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PRESENTATION DOCUMENTS

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NRC/PG&E MEETING AUGUST 7, 1997

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NRC AND PACIFIC GAS & ELECTRIC COMPANY

MEETING IN REGION IV, ARLINGTON, TEXAS

AUGUST 7, 1997

8:30 INTRODUCTIONS KEN PERKINS, DIRECTOR, WALNUT CREEK FIELD OFFICE

LARRY WOMACK, VICE PRESIDENT, NUCLEAR TECHNICAL SERVICES

ENGINEERING -

ORGANIZATIONAL PERFORMANCE - L. WOMACK

ENGINEERING SUPPORT (SYSTEM ENGINEERING, IN-SERVICE TESTING, EROSION/CORROSION PROGRAM) - D. MIKLUSH, MANAGER ENGINEERING SERVICES

PROBLEM IDENTIFICATION AND RESOLUTION - D. MIKLUSH

DESIGN AND LICENSING BASIS MAINTENANCE - JIM TOMKINS, ACTING MANAGER, NUCLEAR SAFETY ASSESSMENT AND LICENSING

WORKLOAD MANAGEMENT - BOB WALTOS

10:00 BREAK

10:30 MAINTENANCE - DAVE OATLEY, MANAGER, MAINTENANCE SERVICES

MAINTENANCE INDICATORS

OPERATIONS AND MAINTENANCE COMMUNICATIONS

MAINTENANCE RULE

SECONDARY SIDE MAINTENANCE

FUTURE DIRECTION

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Engineering Agenda

- Organizational performance L. Womack
- System engineering D. Miklush
- Problem identification and resolution D. Miklush
- Workload management B. Waltos
- Design and licensing basis maintenance J. Tomkins
- Operating experience assessment C. Belmont
 - Conclusions L. Womack



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Organizational Performance

- Improvements
- Actions in progress
- Future changes



Actions in Progress

- Aggressively addressing engineering workload
- Additional engineering resources to support licensing and design basis work
- Engineering is involved in NPG's reengineering efforts to improve processes and make them less burdensome
- Positioning engineering for sustainable performance in a competitive market



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System Engineering

- Mature program
- Very effective in identification and resolution of plant equipment issues
- Perform outage maintenance leaderships roles
- System engineering role in MR
- Future improvements
 - System engineering qualification requirements
 - for the MR
 - More performance-based rather than DCNfocused
 - More involved in preventive maintenance



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Problem Identification and Resolution

- Problem identification
- Problem resolution
- Prompt operability assessments .
- Design change effectiveness



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POAs Actions Taken

- Process enhancements
 - Engineering responsible for POAs
 - Process owner
 - Streamlined procedures
 - All engineering personnel, supervisors, and directors trained by process owner
 - directors trained by process owner
 - Review of potential operability issues at daily engineering meeting and bi-weekly Emerging Issues meeting
 - POA and OE status reviewed at bi-weekly Emerging Issues meeting
 - Quality Plan tracking



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Examples

Problem

Resolution

CCW heat loadReplaced oil coolers and raised system qualified peak temperture to restore margin230 kV voltage variabilityReplacing startup transformers with load tap changing transformers, capacitors being added to transmission systemMSSV setpoint driftExtensive research and testing, replaced disksASW piping corrosionAdded bypass piping and enhanced flow instrumentation and cathodic protectionFuel oil tank environmental complianceReplaced tanks and piping to comply, and added capacity4 kV breaker capacityReplaced breakersSI throttle valve clearancesModified sump screens and extensive bench flow testing	CCW CFCU flashing	Added pressurization system, GL issued
230 kV voltage variabilityReplacing startup transformers with load tap changing transformers, capacitors being added to transmission systemMSSV setpoint driftExtensive research and testing, replaced disksASW piping corrosionAdded bypass piping and enhanced flow instrumentation and cathodic protectionFuel oil tank environmental complianceReplaced tanks and piping to comply, and added capacity4 kV breaker capacityReplaced breakersSI throttle valve clearancesModified sump screens and extensive bench flow testing	CCW heat load	Replaced oil coolers and raised system qualified peak temperture to restore margin
MSSV setpoint driftExtensive research and testing, replaced disksASW piping corrosionAdded bypass piping and enhanced flow instrumentation and cathodic protectionFuel oil tank environmental complianceReplaced tanks and piping to comply, and added capacity4 kV breaker capacityReplaced breakersSI throttle valve clearancesModified sump screens and extensive bench flow testing	230 kV voltage variability	Replacing startup transformers with load tap changing transformers, capacitors being added to transmission system
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Fuel oil tank environmental complianceReplaced tanks and piping to comply, and added capacity4 kV breaker capacityReplaced breakersSI throttle valve clearancesModified sump screens and extensive bench flow testing	ASW piping corrosion	Added bypass piping and enhanced flow instrumentation and cathodic protection
4 kV breaker capacity Replaced breakers SI throttle valve clearances Modified sump screens and extensive bench flow testing	Fuel oil tank environmental compliance	Replaced tanks and piping to comply, and added capacity
SI throttle valve clearances Modified sump screens and extensive bench flow testing	4 kV breaker capacity	Replaced breakers
	SI throttle valve clearances	Modified sump screens and extensive bench flow testing

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Examples (cont'd)

Problem

Resolution

RWST inventory and instrumentation

Main bank transformers degradation

CFCU timers

RVLIS normalization

EDG exhaust bellows cracking

MSSV tailpipe gap clearance

Cold reheat piping crack

Train separation post-LOCA

Unqualified epoxy grout

Increased Tech Spec inventory and additional level channel

Replacing main bank transformers

Upgraded timers

Revised procedures, performed testing. IE Notice issued

Upgraded bellows

Modified gaps

Repaired piping, inspections of similar piping welds

Revised procedures

Complete qualification testing



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Workload Management (WLM)

- Identified as a concern by PG&E self-assessment
- Dedicated design team clearly defined the problem and proposed an action plan
- Dedicated team composed of directors and supervisors formed to implement action plan
- Senior NTS management involvement
- Goal of Effort
 - Establish consistent workload management philosophy and tools
 - Goals and performance measures established and monitored
 - Workload reduction



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WLM Actions Progress To-Date

- 4/97 All hands meeting established WLM as an important Engineering issue
- 5/97 Standard PIMS report produced
- 5/97 PIMS post-1R8 AR and AE workload uncharacteristic of previous outages
- 6/97 Workload management manual issued
- 6/97 Workload reduction effort kickoff
 - characterized workload
 - significant progress on key goals
 - priority 4 review underway
 - other indicators showing positive trend



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Sheet2

Page 1

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WLM Performance Indicators

> Indicators reported in the ES quality plan

- > Favorable overall trends with workload reduction effort
- Outage design milestone
- Quality problem workload
- PIMS workload
- Drawing backlog
- Modification backlog
 - Temporary modifications⁻
 - Operator work-arounds and burdens
 - POA status and closure



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NTS "A" Type ARs (Goal <10% Overdue)



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ENGINEERING SERVICES QUALITY PLAN REPORT CARD

ENGINEERING SERVICES/DESIGN ENGINEERING SERVICES DRAWING REVISION INDICATOR



PERFORMANCE STATUS



Total Priority I Drawings - Backlog and Overdue





COMMENT:

In each of the two figures, the upper curve tracks the total number of Priority I or II drawing revisions, assigned to the ES and DES drafting groups, awaiting incorporation and issuance. The lower curve in each figure tracks the number of these drawings that are overdue - the drawing revision not approved within the 30 day or 90 day limit after installation, as tracked in PIMS.

As of June 26, 1997 in NTS, there were 366 drawings overdue. One hundred eighty one (181) priority I and one hundred eighty five (185) Priority II status. In Engineering Services (ES), there were eighty one (81) priority I overdue drawings and one hundred sixty two (162) priority II. The goal was not achieved primarily due to the inflow of a huge number of drawings for incorporation during and after 1R8 when NTS received over 1500 drawings to modify. This overwhelmed our production capacity leading to the large number of overdues; 144 drawings were modified in June at DCPP. The number of overdue's will stay high for several months as we work off this flood of drawings.

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ENGINEERING SERVICES QUALITY PLAN REPORT CARD

JUNE 1997



Unit 1 - 2 during 1R9 and 5 being considered for permanent installation.
Unit 2 - 6 to be removed during 2R8, 1 to be removed in 2R9.

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WLM Future Milestones

Review and monitoring of action plan ongoing

- 8/97 Modification reduction plan
- 11/97 Partnership responsibilities
- 11/97 Development of "quick hit" concept
- 12/97 Long-term planning tool established
- 12/97 Implementation complete
 - turnover to process owner
- 1998 Monitor performance / adjust as necessary



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Design and Licensing Basis Maintenance

- FSAR
- 10 CFR 50.59
- LDBAP

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FSAR

- Non-Conformance in Jan 1996
- Numerous Procedure Improvements
- Process Owner Assigned
- Any discrepancies identified to be assessed for USQ Potential, Operability, and Reportability within one week
- Since 1996, have identified about 650 discrepancies
 - 0 USQs, 0 reportable, 0 operability issues
 - Currently 22 remaining to be incorporated in FSAR
- Follow-on FSAR review as part of LDBAP
- Organizational sensitivity to FSAR is where it needs to be



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10 CFR 50.59

- Non-Conformance in December 1996
- Overall process judged to be sound, but
 - Procedures and process Flow can be improved
 - Licensing Basis search tools can be improved
- Management expectations promulgated
- Process owner identified
- Strong participation in RUG IV SECY 97-035 comments
 - Procedure improvements made
 - Organizational sensitivity is where it needs to be

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Licensing and Design Basis Future Work

- 50.54(f) Design Basis letter
- LDBAP pilot program in progress now
 - Program's purpose is to identify and resolve licensing and design basis inconsistencies and issues
- Findings to date
 - No operability or safety significant issues, no system which could not perform its safety function or was degraded
 - Approximately 5,000 pages in 400 documents reviewed, 55 ARs written
 - Some programmatic issues that will require improvements
- Program to be revised based on the pilot program results

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Operating Experience Assessment (OEA)

Recent Status

Large emphasis on backlog because of:

- Shear numbers
- Average age
- Missed opportunities
 - 3 examples (2 self-identified, 1 NRCidentified)



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OEA (cont'd)

Actions Taken

- Initiation of quality problem to address
- Thorough review for other missed opportunities
- Weekly report-outs to NQS management on selected backlog items
- Documentation of steps necessary to bring closure to these items
- Established goals for success

<u>Results</u>

- Adequate assurance of no hidden safety issues in the backlog
- Decrease in backlog
- Heightened awareness



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OEA Program Successes

Problem

SOER 96-01 & 02

Hardware - NRC IEN on charging/SI pump shaft

Procedures - NRC IEN on

engineered safety features

inadequate testing of

actuation systems

to OE

failures

Resolution

Resulted in replacement of 27 clips at DCPP which Hardware - Broken retaining prevented Operations challenge to transients clip at Callaway

Training - As a result of Simulator sessions developed for low power operations, presentations on reactivity management, safety culture weaknesses, control room formality

Procedural/Operations -Conditions identified indicated that both SI pumps Revised operability call due could result in inoperability. Determined to be reportable at DCPP

Resulted in DCPP change-out of similar shafts

Resulted in a number of DCPP test procedure revisions



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Conclusion

- Strengths in problem identification and resolution, design change quality and safety review programs.
- Significant engineering problems have been resolved in a thorough and comprehensive manner.
- Areas for continued improvement include: workload management; problem resolution; operating experience; and design basis
- maintenance.
 - Continuing self-critical and pro-active attitude is resulting in actions to improve overall performance.



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Inservice Test Program

- 2nd 10-year plan
 - Design basis review of check valves performed
 - IST Bases document being developed
 - Relief requests should have had additional justification
- Recent program organizational changes
- Subsequent evaluations
 - Review based on NUREG-1482 and recent industry/NRC workshop proceeding
 - NCR on several valve issues
 - Family of curves for CCW pumps
- Additional actions
 - Design basis review of power-operated valves
 - Independent program assessment

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Agenda <u>Maintenance Services</u>

- Performance indicators
- Operations and Maintenance interface
- Secondary Maintenance performance
- Maintenance Rule
- Training
- Erosion/Corrosion
- Future Maintenance direction



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Maintenance Indicators Quality Plans

- Started September 1996
- Provides goals, metrics, and feedback on performance
- Heavy reliance on Event Trend Records to look for low level adverse trends
- Focus areas established for negative trends
 - Control room ARs and TM errors examples



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Maintenance Indicators (cont'd) Control room ARs from 195 in September to about 95 today Goal is <40 by year end Negative trend in returning equipment to service by TM SV-171 lifted lead, DRPI switch left in test, RM-11/12 selector switch out of position examples Found other lower level problems - Expectations, management monitoring, trending, and accountability reduced errors

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Maintenance Indicators

- Non-Outage Corrective Maintenance (CM) Backlog
 - CM items that can affect generation (Priority 1-3) older than 90[°] days reduced by ~40%
 - Reduced to <90, then trended up during 1R8
 - □ 1997 goal <50 CM ARs older than 90 days
 - Non-Outage Priority 1-3 CM reduced 33%



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Operations and Maintenance Communications

- Clearance errors
 - Low number of errors non-outage periods
 - Outages biggest concern
 - Trained all foreman and upgrades prior to 1R8
 - Fewer errors in 1R8, all caused by upgrade foreman



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Secondary Side Maintenance

- Intake Task Force Formed in 1996
 - Operations/Maintenance/Engineering
 - Several improvements made:
 - Operator training and procedure changes
 - Increased PMs
 - Improved basket/rake design
 - Increased traveling screen speed
 - Beefier" screen frames (4-post design)



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Secondary Side Maintenance (cont'd)

- Feed Pumps
 - Control oil biggest problem
 - □ Shares control oil with lube oil
 - Water in oil most recent problem
 - Thought being below ASTM standards OK
 - Closer monitoring with actions @ ~100ppm
 - Quarterly stop valve cycling



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Secondary Side Maintenance (cont'd)

- Feed Pump cont'd
 - Improved PMs
 - Actuator rebuilds each outage
 - Trip block lapping each outage
 - Cleaned lube oil reservoir in 1R8 and planned for 2R8
 - Improved 3 micron filters for control oil
 - Installed control oil PIs



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Secondary Side Maintenance (cont'd)

• Turbine

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- Most problems with EH system
 - □ O rings
 - Sticking servo-valves
- INPO assist visit in December
 - Run earthen filter full time (done)
 - □ Install new 1 micron filter (R8s)
 - PMs on actuators and servo valves (R8s and 9s)
 - Desiccant breathers on EH reservoir (done)
 - □ Replace trip solenoids with new design (2R8,1R9)

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Training

- Issues were using unqualified craft and lack of line ownership of training
- 96 & 97 INPO evaluations showed problems solved
- Currently performing detailed self-assessment



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Erosion/Corrosion

- DCPP is a high wear rate plant
 - Seawater cooling
 - Feedwater pH is low
- Significant issues
 - Pipe wall thinning
 - Iron transport to the SG
- Defense-in-depth strategy
 - Commitment/analysis/industry/experience/judgment
 - E/C-specific education for OPS and SE
- Long-term strategy
 - Continual monitoring/evaluation
 - Elimination of susceptible piping



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Future of Maintenance Services (cont'd)

- Begin transition to cross functional teams
 - Intake team as pilot
 - Using Vogtle and Comanche Peak as models (different but similar)
 - Incorporating lessons learned from combing E&IC into TM



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Nuclear Safety Assessment & Licensing Quality Plan

APRIL 1997 Report

Michael J. Angus Manager, Nuclear Safety Assessment & Licensing

<u>5/5</u>/97

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NSAL Quality Plan April 1997 Report

Section I Goals

The following goals have been established for a select population of quality indicators. Indicators will be evaluated monthly, and a determination made if corrective actions are necessary.

- 1. Timely identification of licensing issues to NPG Management:
 - Subjective evaluation by Officers/Managers

December issues:

a) Predecisional enforcement conference preparation needs improvement. ACTION: COMPLETED Regulatory-Services initiated a lessons-learned-effort-focused on the effectiveness of our preparations for the December-1996-Enforcement-Conference on issues associated with EOP E-1.3. Recommendations were finalized by 3/21/97.

-Early-determination of possible E/C-and NRC-issues

- Early kickoff meeting with koy clakeholders Early strategy meeting with senior NPG mgmt. Develop and implement definitive action plan

-Early-development-of-E/C-presentation for-dry-runs

b) Communications with the NRC need improvement. <u>ACTION:</u> COMPLETED

January issues:

c) NTS does not provide a unified approach to Emerging Issues. <u>ACTION: NTS VP & Managers developed Lessons Learned and proposed</u> Actions for improving response to EI which was discussed at the 3/27/97 Leadership Team meeting and will continue to assess performance during

1R8the-2/25/07-NTS-Joint-Directors-Staff-meeting.

Procentation of Issue Management process at 3/27/07 Leadership Team meeting Continue to monitor-performance -Accocc-progrocs-during-outage

NO new February issues:

March issues:

d) NTS needs a comprehensive plan for communicating / tracking of regulatory issues and performance.

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NSAL Quality Plan <u>April</u> 1997 Report

<u>ACTION: Regulatory Services has developed a NRC Communications Plan with</u> <u>the following elements:</u>

- <u>Regulatory Issues Matrix (breakdown of LERs, NOVs, strengths and</u> <u>weaknesses identified in NRC inspection reports - by SALP area)</u>
- <u>NRC Open Items Tracking List (formal NRC inspection items opened by</u> <u>the NRC as documented in their inspection reports)</u>
- <u>NRC Open Issues Tracking List (PG&E list of open inspection issues and required actions ongoing inspections issues)</u>
- <u>Regulatory Management Briefing Package (significant regulatory issues</u> <u>summary provided to MJA prior to the bi-weekly Emerging Issues Mtg.)</u>
- <u>1997 Self-Assessment (self-SALP to be developed in preparation for SALP discussions with the NRC)</u>

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- 2. No violations or timeliness issues are identified by NRC or INPO for resolution of design basis and analysis evaluations (Findings or violations for performance occurring more than 24-months prior to the current date are excluded.):
 - Two or less Inspection Report references will be identified to untimely resolution. No references relating to untimely resolution for analyses or design basis evaluations were found in the single NRC IR (<u>97</u>96-024) issued during this period.

<u>However, IR 96-21s2 was issued 3/11/97 and specifically requested:</u> <u>" In addition, we note that you continue to evaluate Revision 8 to Procedure EOP E-</u> <u>1.3 which may change your conclusion on whether an unreviewed safety question</u> <u>was created. Please provide an update to your letter if your conclusions changes.</u>"

- No INPO findings will result from untimely issue resolution. NO INPO concerns related to untimely issue resolution.
- No INPO findings or NRC violations will result from improper new analyses or design basis evaluations.

No NRC violations nor INPO concerns for analyses or design basis evaluations were received during this time period

<u>The TRG for NCR N0002008 has been meeting nearly weekly since January.</u> The TRG found no issues of safety significance and no reportable or operability issues to date. The PSRC will be provided with a root cause and recommended corrective actions by May 1997.

- Heightened awareness of LBIE process and procedural requirements
 - More inquiries to 50.59 process owner
 - Closer scrutiny by preparers and reviewers
 - More intense review by PSRC
 - Awareness and expectations memoranda issued
 - <u>Guides to existing tools prepared</u>
 - <u>Refresher awareness training held</u>
- Initial TRG findings:
 - Performance has not deteriorated- Expectations have been raised
 - Performance cannot meet current expectations without improvements
- Causal factors and recommendations developed

Proposed interim LB/E Procedure revision to incorporate recent NRC Guidance (Inspection Manual 0900)
 Continuous scope expansions—considering LB/Es for;
 _____Tech_Spec_Interpretations

- -----Selected-Calculations

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- 3. No missed commitments:
 - All one-time commitments are appropriately identified in tracking programs and are scheduled for completion.
 - —<u>No one-time commitments were missed during March or April.One-one-time commitment-was-missed-during February-1997;</u>

LER-revision 1-96-018-01 missed NRC-date of 2/15/97.
 NCR-N0001991 is addressing missed commitments, and IDAP-XI1.ID1-was
 approved by the PSRC-which-completes the one-action remaining-open-for this
 NGR.

• All on-going commitments are appropriately identified in tracking programs and are scheduled for completion.

In April, an NQS assessment identified that NQS was not performing biennial audits of routine plant procedures that are used more frequently than every two years as committed to the NRC in 1993. This commitment was adequately tracked in the PCD but has not been appropriately implemented into plant procedures. QE Q0011950 tracks the root cause and corrective actions for this event..

- (NOTE: In February, a potential missed commitment and procedural adherence problem was identified and documented in A0424166; however, on May 5, 1997, the February issues regarding PSRC review of EITs and holding special PSRC quarterly meetings were determined to not be missed commitments - only a procedural adherence problem. A0424166 will document the justification/ evaluation for why there was no missed commitment.-two-ongoing-commitments were missed during February 1997 which were properly recorded in PCD-but not performed by PSRC for some time - in violation of their procedure;
- ---Quarterly-PSRC-meetings-to-review-NCR/LER-trends, TRG-effectiveness-and HPES-findings-
- ----Corrective-actions-for-QE-Q0011647-to-revise-procedures-(PSRC-approved 2/28/97)-should-contribute to-commitment-tracking-effectiveness-Modifications-to-PCD-(PMOD-ETC = 10/97)-will-further-enhance-the-commitment process-.)

- Specifically, we request that you provide a written response within 30 days after completion of the database review describing: (1) the scope of the procedure database review; (2) the number and characterization of the deficiencies found; and 13) the actions taken to maintain the database current and accurate."

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- 4. No NRC Inspection Report issues for operability concerns:
 - No references that Prompt Operability Assessments were not generated when needed.

No POA concerns were identified for the current period in NRC IR 97-0296-024.

• No references that Operability Evaluations were inadequate or not current. Performance is on track with no NRC Inspection Report references of inadequate or untimely Operability Evaluations since November 1996.

<u>However, during a recent NRC exit meeting for the inspection period ending</u> <u>4/24/97, a potential violation was identified for failure to initiate an AR and</u> <u>investigate the cause and potential impact on operability of the condition</u> <u>where a sample of TDAFW pump governor oil was found to contain 500 ppm</u> <u>water upon its initial discovery in August of 1996,</u>

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- 5. All NSAL projects and major initiatives have an active project agreement and are maintained on schedule:
 - Projects have designated Project Managers.
 NSAL is responsible for <u>fourthree</u> projects which have designated project managers:
 - <u>Licensing & Design Basis Affirmation Follow-up</u>-Pr<u>ogramoject</u>, Bob Webb
 - Best Estimate LOCA and Mini-Uprating, Ralph Berger
 - Standardized Technical Specifications, Pat Nugent
 - Projects are maintained on schedule and within approved budget.
 Bob Webb was named Project Manager of the LDBAP follow-up-scope-which has a preliminary schedule indicating completion of the work "committed" to the NRC by the 3rd quarter 1998. Other work (not committed to the NRC) would essentially complete by the same time; except for vendor interface which would not complete until the end of 1999. Staffing of the "Find It" and "Fix It" teams as well as phase I pilot review of the RHR system and Accident Analysis topic area have begun.

APRIL-STATUS NEEDED-FROM PAT-NUGENT-

March — The STS project was initiated prior to the implementation of project management guidelines. No formal budget was approved for the project. The project manager for the submittal of the conversion LAR is Pat Nugent. -- All but 34 sections of the TS have been reviewed and approved by the PSRC. One of the remaining three sections (3/4.7) is completed and signed-off by all the reviewers. The other two sections 2.0 and 3/4.3) are still being reviewed by ICE. This review will be completed by 5/9/97-Two-of the four-remaining sections are scheduled for PSRC the week of 4/22/97. The remaining sections are expected to be presented to thescheduled for PSRC during the week of 5/124/28/97. Submittal of the conversion LAR is scheduled for approximately 5/15/97.

<u>Manpower and cost estimates for the completion of comment resolution</u> phase and the implementation phase of the STS project have been presented to management. Discussion of these phases of the project, as well as completion of the submittal phase of the STS project, are scheduled for discussion at the managers' meeting on 4/17/97. Potential project managers for the comments resolution and implementation phases of the STS project have been proposed to management for consideration.

<u>-- Completion of the submittal phase of the conversion LAR includes</u> <u>completion of a cover letter, finalization of the approved TS sections and an</u> <u>integrated review to verify that all sections of the new TS integrate correctly,</u> <u>and preparation of the final package, including receiving final PSRC approval</u> <u>of the entire submittal. The final integrated review of the submittal is occurring</u>

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the week of 5/4/97 in San Francisco. Upon completion of the final review, the final PSRC review will be scheduled.

-- Per discussion regarding the submittal and potential implementation dates, dialogue with NRR was initiated regarding delaying the implementation of the submittal. Based on conversation with the NRR project manager for DCPP, implementation of STS can be delayed until mid 1999. This will allow resources that would be required to implement the STS to be released for use on this project.

-- The Mini-Uprating project is re-evaluating the schedule to implement the changes for prioritizing overall NPG resources. A recommendation on the implementation schedule <u>waswill be</u>-reviewed by the Leadership Team on April 3, 1997. A decision on the implementation schedule was deferred until NTS completes further evaluation of the Integrated Project Resource Schedule for available resources.

-- The BELOCA LAR was delayed by the PSRC, but <u>was approved by the</u>is scheduled for PSRC on 4/14<u>8</u>/97 and <u>will be</u>submittal to the NRC- by <u>May</u>4/48/ <u>31, 19</u>97<u>.</u>

6. Training goals are met:

- Attendance is greater than 95% and 100% scheduled.
- No NSAL participants are late to class or returning late from breaks.
- Initial test pass-rate for continuing training is greater than 95%.

The <u>March</u>February Training Health Report identified no issues for NSAL training attendance goals. <u>Although</u>_Statistics for completion of the Qualification Guides indicate that NSAL <u>status has progressed considerably</u> <u>since last month</u>, and NSAL personnel will complete the required qualifications <u>by April 30, 1997</u> is behind most sections in completion of "Knowledge's" with 56% of Reg. Svcs. completed and 72% of Bases completed, this may be due to a delay in providing the records to Learning Services because NSAL internal records indicate 85% and 95% complete, respectively.

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7. Limit events which require submittal of Licensee Event Reports to less than 12 annually (NOTE: This goal is tracked for the NPG business unit by NSAL for convenience. The responsibility for meeting this goal rests with all NPG departments. LER's submitted for performance occurring more than 24-months prior to the current date are excluded.):

<u>Three "current event" LER's have been submitted this year to-date. The latest</u> <u>event is the the Unit 2 reactor trip due to MFWP 2-1 problems</u>Performance is on track to this goal with one LER submitted during February 1997.

 95% of LER revisions meet their initially scheduled submittal date. <u>No LER revisions missed due dates during April.</u> <u>RS has four overdue revisions in backlog. Two of these require engineering</u> <u>support to complete - S/G tube support plates, and FLURs; the other two are</u> <u>for MSSVs.</u> <u>Epoxy Grout and MSSV low lifts are expected to be submitted In</u>

MayAprilDuring-February-1997, one "committed" revision-missed its-due-date.

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8. Notices of violation are limited to 12 annually (NOTE: This goal is tracked for the NPG business unit by NSAL for convenience. The responsibility for meeting this goal rests with all NPG departments. NOV's caused by performance occurring more than 24-months prior to the current date are excluded.):

-<u>NRC Inspection Report 97-02 was issued April 15, 1997. Although Two NOVs-were-received in IR-96-24, which are the first two NOVs-received from-1997-inspections. However, one NOV ("Improper-revision of DCM-S-9"</u>

 was not a "current" issue - 1994) Given three additional potential violations were identified in

from the 3/18/97 exit meeting for IR 97-02, <u>one of these NOVs was rolled over</u> into the existing Unresolved Issue (URI) on FSAR discrepancies and the other two were combined into a single Level IV NOV which was issued during April which is considered a "non-current" issue since it involved failure to adequately translate the original design basis requirements into plant procedures/Tech Specs for control of SFP temperatures and RWST level instrument availabilitythere is a NEGATIVE TREND for this goal. <u>Although</u> there is not a negative trend for this goal at this time, this is primarily due to the fact that the NRC has combined numerous FSAR issues into URI 50-275/96-006-06 for consideration by Region IV - including the potential for ESCALATED ENFORCEMENT.

Regulatory Services has revised their processes to include the proactive identification of potential violations, and the proactive response to issues identified by the NRC to mitigate the receipt of a violation

An open issues list has been developed to track issues as they are identified by the NRC resident. This list is distributed weekly to NPG management. It has also proven to be a useful tool in discussions with the NRC resident. Regulatory Services has also facilitated the closure of NRC open items by developing and submitting <u>5446</u> closures packages to the NRC resident. An open item tracking list has also been developed to track this effort.

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- 9. Maintain quality problem issues current: THIS GOAL HAS NOT BEEN ACHIEVED.
 - 90% of A-type AR's are current.
 <u>7369</u>% of A-type AR's are within their current estimated completion date.
 This is an a significant improvement sinceover-21% in December, but is still a <u>NEGATIVE TREND from 81% in November.</u>
 - 90% of QE's are current.
 Only <u>40</u>29% of QE's are within their current estimated completion date.
 This is an improvement from 29% in February, but is a CONTINUING NEGATIVE TREND from 75% in November-and-57%-in-January.
 - 95% of NCR's actions are current.
 <u>100</u>74% of NCR <u>action</u>'s are within their current estimated completion date<u>-</u> which is even better thanhas exceeded our goal This is an improvement over 65% in December, but is still <u>BELOW the 85% in November and 82% in</u> <u>January.</u>

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10.Submittals are timely and of high quality:

 Submittals are provided to the signatory at least 2 working days before the due date. <u>Three submittals (one LER and two environmental annual reports) were One</u> <u>submittal (NOV response) was</u>-not provided at least 2 working days in advance to the signatory during <u>April</u>February 1997 - <u>13</u>8 other submittals with "firm" due dates during <u>April</u>1997 were timely.

<u>The RWST channels/RHR pump trip LER required additional work on the safety</u> <u>analysis, The environmental submittals were large documents, and</u> <u>insufficient clerical support was available to finalize the submittals due to the</u> <u>STS project workload.</u>

• Submittals to the NRC have no technical errors.

<u>We metDID NOT MEET this goal for AprilFebruary 1997</u>—there has been ONE technical error among the 34 submittals, with NO technical errors! Two March submittals had technical errors requiring RS action:

<u>1. NOV response for DCM S-9 content was identified as having an incorrect</u> <u>CAPR status when delivered to the signatory. The CAPR was corrected and</u> <u>the submittal to the NRC was correct.</u>

<u>2. LER 1-97-004 on the painted AFWpump had the wrong year on dates in</u> <u>Section E of the LER. A revised LER will be required.</u>

<u>To reduce the number of technical submittal errors, the following actions are being taken:</u>

- <u>A peer review of the submittal by RS will be performed on the final draft to identify</u> <u>errors in dates, numbers, and "boiler-plate" items.</u>
- Additional ITRSs will be provided for certain submittals to ensure that all subject areas receive sufficient review - i.e., OPS will be asked to ITR unit trip LERs, even though Engineering is the key information provider.
- <u>All ITRs will be provided a copy of the ITR expectations list from XI1.ID1.</u> <u>Some</u> <u>ITRs are not paying sufficient attention to detail.</u>
- Personnel accountability for errors.

11.Achieve a rating of 2 or better for NSAL Employee Opinion Survey: (Survey was last performed during January 1997.)

•	Supervision demonstrates an interest in employees	while making changes.
	The results of the initial survey was 2.42.	43% "favorable"

- Management walks the talk.
 The results of the initial survey was 2.67.
 My superviser keeps me survey of transition estivities
- My supervisor keeps me aware of transition activities. The results of the initial survey was 2.81.
 41% "favorable"

• I understand how my job fits into the objectives of NSAL. *The results of the initial survey was 2.36.*

1 = Strongly Agree 2 = Agree = "favorable" = "favorable"

64% "favorable"

<u>5/5</u>/97

Rating key:

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- 3 = Neither Agree Nor Disagree
- 4 = Disagree
- 5 = Strongly Disagree

<u>5/5</u>/97

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Section II <u>Miscellaneous Quality Indicators</u>

On a nominal quarterly basis, the following items will be reviewed to determine if management attention is required.

Event-Trend-Records				
 Quality Performance Assessment Report (QPAR) 				
(References from QPAR 97-1 96-2:)				
• <u>Some Licensing Basis Impact Evaluations (LBIEs) are either not performed when</u>				
required or are performed inadequately				
 <u>Numerous discrepancies were discovered in the FSAR regarding facility description and operations</u> 				
 <u>Commitments made in the past have either been inadequately documented or</u> inappropriately controlled 				
• The number of NTS overdue NCR actions has increased 25% during this period; thus				
continuing to challenge maintenance of quality problems Programmatic problem in				
Configuration-management: Including-Inconsistent-FSAR-updates-and-PCD-deficiencies,				
*LOSS-OF-KOy-locanical-personnel-may-challenge-ine-ability-to-address				
• NPC inspections (as months for each on the				
NQS assessments (no comments other than QPAR)				
Process owner assessments				
\Rightarrow Licensing Basis Impact Evaluations (LBIE)				
{NCR 2008 recommendations expected by May 1997. Status:				
<u>Actions: Past performance data analyzed, Casual factors determined, and Developing</u>				
Corrective action recommendations				
Qualifications, training, regualification, Process and procedures, and Performance				
Management - Expectations and Accountability				
 PG&E provided comments on SECY 97-35 and participated in the Region IV Engineering 				
Managers working group meeting on April 4th, and attended a meeting in Dallas on April				
process owner, - Gloser scrutiny by proparers and reviewers, - Moro intense review by PSRG				
Proposed interim LBIE Procedure revision to incorporate recent NRC Guidance (Inspection				
Manual 9900) Continuous scope expansions - considering LBIEs for -Tech_Spec_Intermetations -				
Operability Evaluations,-Soloctod-Calculations)				
⇒ Final Safety Analysis Report (FSAR)				
• <i>(FSAR inaccuracies continue to be identified.</i>				
 Topical area reviews and vertical slice audits are planned for 1997 & 98, as described in a 				
letter to the NRC which was submitted on April 25th.				

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- Guidance <u>waswill-be issued in April</u>developed to require documentation of deficiencies in AT-FSAR type ARs along with performing an assessment of safety significance, reportability, impact on operations and potential of USQ within <u>one week10 days</u> of discovery.)
- Administrative Task-Mechanical Maintenance Action Request (ATMM-AR)
- ⇒ Design-Change-Memorandum (DCM)
- (IDCMC-backlog-incorporated, but-programmatic-problem with DCM revision-process per-QPAR-96-2)
- ⇒ Calculations
- \Rightarrow Commitments<u>(see results for goal 3)</u>
- (NCR-1991 and QE-Q0011647 for NRC submittal commitment-tracking problems have completed their actions and are being closed.)
- Others as applicable

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Section III

Recovery Plans and Goal Setting

If an adverse quality trend is determined to exist or specific attention has been determined to be necessary, it will be dispositioned one of two ways:

- 1. <u>Director Attention Required</u>: The affected Director(s) will provide a recovery plan to the manager. This plan should contain a specific goal (e.g. reduce parameter X from Y to Z), and specific actions to be taken, with a schedule to complete the actions.
- 2. <u>NPG Significant Issues List</u>: If the condition is significant enough, or crosses Department boundaries, it should be considered for NPG's Significant Issues List. The recovery plans should contain metrics, specific actions and a schedule to complete. Once the final goal is achieved, the item is removed from the list. This list will be reviewed monthly by the NPG managers and officers.

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Section IV

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Director Attention List

ISSUE	RESPONSIBLE INDIVIDUAL	TRACKING DOC.	COMPLETION . DATE
Assure 24-month fuel cycle LAR's are submitted to the NRC in sufficient time to support the 21-month cycle - without extending the surveillance interval by 25%.	Alan Nicholson	Action Plan	ECD <u>May</u> <u>97</u> 4/ 18/97 LAR 5 of 5
Quality Problems are not being maintained current - a NEGATIVE trend has been established for several months.	Mike Angus	CONTINUINGA DDITIONAL meetings to review action plans for each overdue quality problem	ECD <u>6</u> 5/1/97 Performance is still below the goal <u>for</u> <u>QEs and A-type</u> <u>ARs</u>
50.59 process weaknesses identified during recent enforcement conference	Dan Brosnan	NCR N0002008	ECD 5/97 <u>Recommendations</u> <u>will be provided to</u> <u>the PSRC</u>
NRC submittal commitment tracking problems	Terry Grobel	NCR-N0001991 (ono-timo-commit XI1.ID1-rov-)	<u>QE PSRC-cpt. 2/28/07</u>
	Frances Chew	QE Q0011647 (for XI4.ID1 & XI4.ID2 revisions) NOT req'd for QE: (PMODs for PCD)	<u>CLOSED</u> PSRC cpt . <u>3</u> 2/28/97 ECD 10/97

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Goal 9a: 90% of A-type ARs are current **RLR**

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NSAL Quality Plan <u>April</u> 1997 Report





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Design Engineering Services

Quality Plan

April 1997

Dave Tateosian

Dave Tateosian Manager, Design Engineering Services • , **š** š ۰ ۲ • . . · · · · ,

Design Engineering Services Quality Plan <u>Introduction</u>

The role of Design Engineering Services is to work with Engineering Services and Nuclear Safety Assessment & Licensing to provide integrated and seamless engineering support to the rest of NPG.

There are four guiding principles for NTS Engineering's support of NPG:

- 1. Knowing our design basis, communicating it, and creating an understanding of it in the rest of NPG is one of our key responsibilities.
- 2. Timely and high quality support is a cornerstone in the foundation of things we need to do in order for NTS and NPG to be successful.
- 3. Managing our projects well, be it hardware upgrades to the plant or licensing projects to improve our operations.
- 4. Treating people fairly and with respect is critical to our success if we are to achieve the performance levels that we, and NPG as a whole, will need to achieve.

The purpose of the Design Engineering Services Quality Plan is to establish a set of metrics for monitoring our performance in support of NTS and NPG.

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Design Engineering Services Quality Plan <u>Introduction (cont'd)</u>

The relationship between the NTS Guiding Principles and the DES Quality Plan Performance Indicators is illustrated by the following:



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Design Engineering Services Quality Plan Introduction (cont'd)

Section I contains the high-level business performance goals for Design Engineering Services. Being high-level, we don't really expect these goals to change over time except when necessary to align with changes in the business/marketplace.

Section II contains the business performance indicators we will be tracking and trending. These performance indicators will be reviewed periodically to assure they remain appropriate, are aligned with the rest of NPG, and that they do not become in and of themselves the end goal rather than contributing to the performance of NPG.

Section III outlines the management process we'll use to recover from adverse performance trends.

Section IV identifies "recovery" issues or areas arising out of the performance indicators which we have targeted for timely resolution or improvement. This is a dynamic list that will change as new issues arise and old ones are resolved. Included in this list are items from Sections I.and II for which Director attention is required per Section III.

Section V contains the performance data for the performance indicators described in Section II.

The status of the performance indicators, and any necessary recovery plans, will be reviewed monthly at the DES staff meeting with Directors and Supervisors, and quarterly with the NPG Leadership Team. At the Leadership Team meetings the following issues should be discussed during the presentation:

- Assessment of performance during the previous month or quarter
- Discussion of Director Attention Required items including goals for success, actions being taken, and performance measurements

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Design Engineering Services Quality Plan <u>Section I - Business Performance Goals</u>

- 1. Manage and Communicate Design Basis Information
 - ⇒ Issue DCM S-61B Rev 1 for the 500 kV and 230 kV system by July 30, 1997
 - ⇒ Complete all CCW system associated documentation prior to the NRC A/E inspection
- 2. Timely Drawing Incorporation
 - \Rightarrow 100% of Priority 1 drawings incorporated within 30 days of acceptance
 - \Rightarrow 90% of Priority 2 drawings incorporated within 90 days of acceptance
 - ⇒ By September 30, 1997, 60% of new drawings for newly issued design changes will be pre-incorporated prior to issuance
 - ⇒ 75¹ Priority 1 drawings for 1R8 existing refueling outage design will be preincorporated by April 30, 1997,
- 3. Timeliness and Quality of Technical Support
 - \Rightarrow Provide technical input to support completion of all:
 - * INVDIO² Action Requests resolved within 30 days
 - * Prompt Operability Assessments within 24 hours
 - * Operability Evaluation presentation to the PSRC within 7 days of inception
 - ⇒ From customer feedback, achieve an average score of 4.5 or better (out of 5) on timeliness and quality of support
- 4. Timeliness of Corrective Actions
 - \Rightarrow 90% of A-type Action Requests not overdue
 - \Rightarrow 90% of Quality Evaluations not overdue
 - ⇒ 95% of Non-Conformance Report actions not overdue
- 5. High quality of work ratings by oversight organizations (e.g. NRC & NQS)
- 6. Excellent Project Management
 - ⇒ Design change projects are issued on agreed upon schedule and within approved cost authorization
 - ⇒ Outage design change projects, for scope identified by the "scope cutoff" milestone, are issued by the "design issue" milestone

¹ As of early January, there were 150 identified Priority 1 drawings affected by current 1R8 outage scope. Half of these will be pre-incorporated by DES and the other half by ES.

² INVIDIO = Issues Needing Validation to Determine Impact on Operability

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Design Engineering Services Quality Plan <u>Section I - Business Performance Goals (cont'd)</u>

- 7. Leadership
 - ⇒ Improve the Employee Opinion Survey scores in targeted areas to at least 50% favorable
- 8. Accredited Training Programs
 - \Rightarrow Attendance is 100% scheduled
 - \Rightarrow 95% of people scheduled to attend, actually attend
- 9. Personnel Safety
 - ⇒ Industrial Safety Accident Rate is 0 per 200,000 hours worked

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Design Engineering Services Quality Plan <u>Section II - Business Performance Indicators</u>

- 1. Manage and Communicate Design Basis Information
 - ⇒ Issuance of DCM S-61B Rev 1 for the 500 kV and 230 kV system by July 30, 1997
 - ⇒ There are no findings against the CCW system during the August 1997 NRC A/E inspection
- 2. Timely Drawing Incorporation
 - \Rightarrow % of Priority 1 drawings incorporated within 30 days of acceptance
 - \Rightarrow % of Priority 2 drawings incorporated within 90 days of acceptance
 - \Rightarrow Number of overdue Priority 1 drawings
 - \Rightarrow Number of overdue Priority 2 drawings
 - \Rightarrow % of new drawings pre-incorporated prior to design issuance
 - ⇒ Number of Priority 1 drawings for 1R8 existing refueling outage design preincorporated
- 3. Timeliness and Quality of Technical Support
 - ⇒ Average score on the timeliness and quality of support from our customer feedback at the time the support is rendered
 - ⇒ Average score on the timeliness and quality of support from monthly feedback from the Engineering Services Manager and Directors
- 4. Timeliness of Corrective Actions
 - \Rightarrow % of A-type Action Requests not overdue
 - \Rightarrow % of Quality Evaluations not overdue
 - \Rightarrow % of Non-Conformance Report actions not overdue
- 5. High quality of work ratings by oversight organizations, e.g., NRC & NQS
 - \Rightarrow NQS QPAR strengths, weaknesses and issues & trends
 - ⇒ NQS Quarterly Assessment of Engineering Activities
 - ⇒ NRC number of NOVs and LERs (excluding voluntary ones)

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Design Engineering Services Quality Plan <u>Section II - Business Performance Indicators</u> <u>(cont'd)</u>

- 6. Excellent Project Management
 - ⇒ Monthly comparison of design change packages scheduled to be issued versus those actually issued3
 - ⇒ Comparison of total forecast project costs versus project authorization plus approved changes 4
 - ⇒ % of outage design change projects issued by the design issue milestone (for scope identified by the scope-cutoff milestone)
 - ⇒ DES Workload (AEs/ARs/QEs/NCRs/FCTs and DCPs)
- 7. Leadership
 - ⇒ % Favorable Score on "The DES Manager and Directors demonstrate an interest in employees while making changes"
 - ⇒ % Favorable Score on "The DES Manager, Directors and Supervisors walk the talk"
 - ⇒ % Favorable Score on "There is a clear link between my performance and my overall pay"
 - ⇒ % Favorable Score on "Morale in DES is healthy"
- 8. Accredited Training Programs
 - \Rightarrow % of people scheduled to attend
 - \Rightarrow % of people scheduled to attend actually attending
- 9. Personnel Safety
 - ⇒ Industrial Safety Accident Rate

³ Applies to all projects with DCPs. For the purposes of measuring performance against this goal, "agreed upon schedule" revisions will be determined by the DES Manager.

⁴ Applies to projects with specific job estimates. Approved changes means additions to scope requested by the project customer. Additional costs that are due to changes not requested by the project customer are considered overruns for the purposes of this measure even though they ultimately may be included within the approved scope. The DES manager will determine what additional costs are "approved" for the purposes of measuring performance against this goal.

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Design Engineering Services Quality Plan <u>Section III - Recovery Management Process</u>

If an adverse performance trend is determined to exist, or specific attention for an issue is required, it will be tracked using the following mechanisms:

- 1. Director Attention Required: For "recovery" issues, the responsible Director will provide a recovery plan to the manager. This plan should contain a specific goal (e.g. reduce parameter X from Y to Z), and specific actions to be taken, with a schedule to complete the actions. These items will be reviewed monthly at the DES Staff Meeting. Refer to Section IV for the current list of issues.
- 2. NPG Significant Issues List: If the condition is significant enough, or crosses Department boundaries, it should be considered for inclusion on NPG's Significant Issues List. Any items for which DES is the lead organization that are on the NPG's Significant Issues List will also be carried on the Director Attention Required List. The recovery plans should contain metrics, specific actions and a schedule to complete. Once the final goal is achieved, the item is removed from the list. This list will be reviewed monthly by the NPG Leadership Team.

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Design Engineering Services Quality Plan Section IV - Director Attention Required List

	RESPONSIBLE	EXPECTED			
ISSUE	DIRECTOR	COMPLETION DATE			
LARs to support Unit 2 21 month cycle	Niel Jones	September 1, 1997			

Tech Spec Scope

LARs 1 and 2 were approved with little comment from the NRC. LARs 3, 4, and 5 are currently being reviewed by the NRC. Approval of LAR 3 is expected by July 1. Approval of LAR 4 is estimated to be in 4 to 6 months. There is currently no expected date for the approval of LAR 5 since it was just submitted to the NRC on May 16. All the required LARs to extend U2C8 to 21 months have been submitted.

Steve Bloom has confirmed that use of the 1.25 allowance for surveillance extensions is acceptable in the event all of the LARs have not been approved by the NRC. For those items that require the use of the 1.25 extension it is understood that there will be a documented technical bases and approval from PSRC prior to exceeding the surveillance test date.

Non-Tech Spec Scope

Doug Howland was appointed project manager on May 5. The immediate focus is on the implementation of the Unit 2 Cycle 8 extension to 21 months.

An integrated project schedule is under development and should be formally issued the week of May 26. The schedule will detail the plan to accomplish the required work prior to exceeding the 18 month limit on Unit 2. A parallel effort is underway to define and prioritize the U2C8 21 month extension scope. Limited resources in the I&C, surveillance, predictive maintenance, and procedures groups continue to present a challenge to the project. The most critical needs are currently in the I&C area to support setpoint and ECG revisions.

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Design Engineering Services Quality Plan

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Section IV - Director Attention Required List

ISSUE	RESPONSIBLE	EXPECTED			
	MANAGER	COMPLETION DATE			
Loss of NPG Experienced Engineers	Dave Tateosian	12/31/97			

Through April 1997, DES has lost 18 people who have left of their own volition. This has resulted in the loss of significant engineering expertise. This issue has also been identified in the QPAR. Major causes of people leaving include uncertainty over the stability of the long term future of the General Office and/or DCPP, opportunities in other parts of PG&E that are perceived as having long-term stability, and career growth opportunities. NTS management plans to address the issue of retention through development of a retention plan and addressing the issue of the future of the General Office.





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Design Engineering Services Quality Plan

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<u>Section V - Performance Data</u>

Summary

		1996								Last 3 Months				
Measure	Goal	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Average
% of Prionty 1 drawings incorporated within 30														
days of acceptance	100%	68%	39%	64%	43%	49%	17%	67%	95%	94%	100%	100%	84%	95%
Number of overdue Priority 1 drawings	0	36	53	50	89	24	74	15	5	6	0	0	9	3
% of Priority 2 drawings incorporated within 30														
days of acceptance	100%	70%	74%	91%	65%	48%	50%	57%	57%	100%	100%	100%	100%	100%
Number of overdue Priority 2 drawings	0	68	48	22	101	224	128	210	106	0	0	0	0	0
60% of new drawings for new issue design														
changes will be pre-incorporated prior to														
issuance beginning Sept 1997	75									NA	NA	NA	NA	NA
75 Priority 1 drawings for 1R8 existing														
refueling outage design changes will be pre-										•				
incorporated by April 30, 1997	60%									NA	NA_	NA	NA	NA
Timeliness of support from customer feedback	4.5	NA	NA	NA	NA	NA	NA	NA	3.5	5.0	5.0	No Input	No Input	5.0
Quality of support from customer feedback	4.5	NA	NA	NA	NA	NA	NA	NA	4.0	4.5	5.0	No Input	No Input.	4.7
Timeliness of support from ES Manager and							•							
Directors feedback	4.5	NA	NA	NA	NA	NA	NA	NA	4.0	3.6	3.5	No Input	3.9	3.7
Quality of support from ES Manager and														
Directors feedback	4.5	NA	NA	NA	NA	NA	NA	NA	4.0	3.8	4.0	No Input	3.9	3.9
% of A-Type ARs not overdue	90%	60%	67%	67%	100%	67%	67%	60%	33%	75%	100%	93%	91%	93%
% of QEs not overdue	90%	100%	100%	93%	100%	100%	100%	100%	100%	100%.	100%	100%	100%	100%
% of NCRs actions not overdue	90%	87%	93%	92%	91%	91%	82%	100%	82%	100%	94%	100%	100%	98%
% of design change packages issued on								_						_
agreed upon schedule	100%	40%	NA	100%	100%	100%	_100%_	80%	100%	100%	67%	0%	100%	67%
% Favorable Score on "The Officers and														
Managers demonstrate an interest in														
employees while making changes"	50%	NA	23%	NA	NA	NA	NA	NA	NA	NA	40%	NA	NA_	40%
% Favorable Score on "There is a clear link								1						
between my performance and my overall pay"	50%	NA	20%	NA	NA	NA NA	NA_	NA	<u>NA</u>	NA NA	18%	NA	NA	18%
% Favorable Score on "Management walks the		[
talk"	50%	NA	16%	NA	NA	NA	NA_	NA	NA	NA	36%	NA	NA	36%
% Favorable Score on "Morale in my work							l		l					
group is healthy"	50%	<u>NA</u>	16%	<u>NA</u>	NA	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>		9%		NA	9%

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Design Engineering Services Quality Plan

Section V - Performance Data

GOAL 1 - Manage and Communicate Design Basis Information

Evaluation: We are on track to issue the 230kV DCM on schedule in late July. Additional performance indicators as developed by the follow-on work to 10CFR50.54(f) will be added as they are developed. We are also "tying up all the loose ends" on the CCW system analyses. These actions will help to both better define the design bases for these systems and help in preparation for the A/E inspection later this summer. As the Licensing and Design Bases Alignment Project effort begin, we expect that there are other performance targets and measures that will be established in support of this goal.

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Design Engineering Services Quality Plan

Section V - Performance Data

GOAL 2 - TIMELY DRAWING INCORPORATION (Priority 1)

Evaluation: In April, nine drawings were not issued within the 30 day clock. This slip in performance was due to several factors:

- 1. Loss of resources through engineers leaving NPG (especially in the electrical discipline) has slowed engineering review and approval of drawing revisions.
- 2. There has been a number of unanticipated higher priority work tasks that have diverted engineering resources away from drawings: increasing support for HBPP, 21-month cycle project, NRC AE audit preparation, etc. In addition, what was unforeseen was that with a number of people at DCPP dedicated to support of the Unit 1 outage, coupled with the short window of time (a few days) available for the engineer to review and approve the drawing, we have not been able to approve drawings in time to support the 30 day goal.
- 3. We are currently phasing in "pre-incorporation" of drawing revisions. The additional volume of drawings incorporating implemented designs and pre-incorporating designs to be implemented in the future has increased our workload.
- 4. We are currently phasing in the new electronic "ADVANCE" system. The learning curve associated with this new system has slowed our production.

We have attempted to increase the engineering resources by bringing in additional staff augmentation contractors. However we have not been successful in replacing all of the people that have left, and there was a gap in time before we were able to replace those that we could. In addition we are evaluating whether additional drafting resources are needed. However, due to the above reasons we expect that we will continue to see a number of overdue Priority 1 drawings during the next few months. Additionally we expect that we will begin to have a problem with Priority 2 drawings also. However, we do expect this performance decline to be transitory and that we will recover full performance. a <u>a</u>. • • ·

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Design Engineering Services Quality Plan

Section V - Performance Data

GOAL 2 - TIMELY DRAWING INCORPORATION (Priority 1)







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Design Engineering Services Quality Plan

Section V - Performance Data

GOAL 2 - TIMELY DRAWING INCORPORATION

(Priority 2)

Evaluation: On December 14th, the goal of zero overdue drawings was achieved. Performance through April has continued to meet goal performance levels of no overdue drawings. We will continue to focus on maintaining this level of performance. However, the same factors that have led to a number of overdue priority 1 drawings may also result in a few overdue priority 2 drawings over the next few months.



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Design Engineering Services Quality Plan

Section V - Performance Data

GOAL 2 - TIMELY DRAWING INCORPORATION

(Pre-incorporation)

Evaluation: We did not meet our goal of pre-incorporating 75 1R8 designs prior to April 30, 1997. Currently, more than 75 1R8 WIPs have been generated and initial drafting completed. However, they are still in the engineering approval/comment resolution phase. Presently, 2R8 and non-outage WIPs are in progress. The factors contributing to not meeting our goal and the associated corrective actions are outlined under the "Priority 1 - Timely Drawing Incorporation" above. We anticipate that performance in this area will improve slowly over the next few months.



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SUMMARY

The following report provides a status of the goals and focus areas that Engineering Services has identified in their Quality Plan. Overall, positive progress has been achieved as identified by the specific indicators in this report.

Specific areas of success:

- The number of overdue "A" Type AR's, and QE's has been maintained below the goals. The total number of open "A" Type AR's continues to show a decreasing trend, while the number of open NCR Actions has shown a decrease for the third consecutive month (Page 3).
- 2. Consistent progress toward achieving the PIP Workload Reduction Goals is being achieved. Although the "overdue" status has suffered a slight set back, continued progress is forecast.
- 3. Quality and timeliness of POA's remains good while still on track to achieve the PIP Goal.
- 4. Progress has been consistently demonstrated in reducing the FCT Backlog. An overall 80% reduction has been achieved during past 10 months. The Configuration Control and Test Group is maintaining emphasis on reducing the total number to meet the goal of zero backlog (Page 11).
- 5. Substantial progress has been made in the past seven months reducing the number of active Jumpers to meet the goals. Although slightly above the goal for Unit 2, it is expected to be met in the near future. There are currently no Jumpers that have been in place greater than one fuel cycle. This is a significant achievement (Page 12).
- 6. The goal for AR MRFF reviews has been met for the first time. This is a significant achievement in light of recent events related to Maintenance Rule implementation
- 7. A new "stretch" goal has been established to disposition all AR's and AE's generated as a result of the Civil Maintenance Rule Walkdown, requiring NTS action, by July 1. Although the goal has not been met, positive progress is being achieved in light of the large volume of items (Page 16).

Specific areas requiring attention:

- 1. A total of 12 2R8 Design Changes have not met the goal for issue by the agreed to due date. This is now a consistent trend that represents an area for improvement.
- 2. The number of overdue NCR Actions continues to be an area for improvement. The overdue goal has consistently not met expectations (Page 3).
- 3. The number of overdue secondary STP reviews by Engineering continues to be high, but trending down. Efforts continue to focus on driving these down to meet the goal of zero (Page 6).
- 4. The number of overdue Priority I and II drawings have not met the goal and have demonstrated increasing trends. This is expected to continue for several months as the increase of 1R8 drawings is worked down (Page 7).

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ENGINEERING SERVICES OUTAGE MILESTONES

Goal: Design Change vehicles for 1R8 issued by Outage Milestone or later, as approved by the Outage Director.

- 1P8, 1R8, 1C8 DCN's all 62 pre-outage identified were issued by required dates.
- 1P8, 1R8, 1C8 AT-MM's of 121 total identified pre-outage, all but 1 was issued by agreed date.

Additionally, the 1R8 Outage Director was satisfied with the performance of Engineering in supporting processing of modifications to designs and new designs as identified during the outage.

- *Goal*: Design Modification, Major Testing and Maintenance scope for 2R8 identified by 1/24/97.
 - Since the 1/24/97 cutoff, 5 items have been coded 2R8 by ES that should have been identified prior to the scope cutoff. 3 of these have been approved as added scope, and the remaining 2 items are being pursued.
- *Goal:* Design Issuance Schedule, with concurrence of implementing organization, issued by 3/24/97.
 - Of the 128 items identifying unissued design scope for 2R8 (AR's and DCN's), all but 1 were provided with scheduled issue dates by milestone.
- Goal: Meet committed Design Issuance Dates for 2R8.
 - As of 6/30/97, 27 2R8 Designs have been issued. 24 Designs were issued by the committed date, 3 were late, 5 are late and not yet issued, and 4 Designs have been rescheduled, but without notifying the Outage Director prior to the originally committed date and therefore, counted as late (12 total late).

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- The number of "A" Type AR's continues to show a decreasing trend with significant reduction achieved in June."
- The number of open QE's rose sharply as a result of findings during 1R8 with slight reduction in June.
- The number of open NCR's has remained stable which is an achievement in light of 1R8 and the historical trend.
- A reduction in the number of NCR Actions has shown a decreasing trend for three consecutive months.
- The number of overdue items in all areas is in need of improvement, with attention given to NCR Actions. With the
 exception to NCR Actions, the goals have been met.

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NTS AR and AE Workload

 Workload is defined as all CM and AT Type AR's and AE's routed to Engineering (ROUTED, PLNNED, and ASIGND Status), and AE's returned to Engineering (RETURN Status).

The statistics do not reflect those that were closed and those that are new.

Consistent downward trend continues to be achieved with significant reductions occuring during the Workload Reduction Kick-Off effort 6/16-6/27.

GOAL: Total Overdue AR and AE Workload consistenly less than 5% by 12/31/97.



NTS Workload (AR/AE) Overdue Status (% Overdue)

 Overdue Workload is defined AR's and AE's with the assigned due date prior to the current date and AE's in RETURN Status to Engineering for greater than 7 days.

• Increased attention needs to be given to overdue items. Although significant progress made in the past few months, attention appears to have recently died off.

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COMMENT:

- The above chart represents the characterization of all AR's in NTS Engineering and the portion that are being
 dispositioned under the Quality Problem Program.
- The purpose of this characterization is to help understand where Engineering resources are being utilized and the relation to quality problems.
- The Characterization Groups are defined as follows:
 - QA/Safety Review: AT AR Sub-Types related to Quality and Oversight Group audit result and findings.
 Configuration Management: AT AR Sub-Types related to maintaining the documentation of the plant
 - configuration and design basis.
 - Evaluation/Inspection: AT AR Sub-Types related to requests for evaluation of issues or conditions (actual or hypothetical) and inspection to resolve conditions.
 - Equipment/Program Problems: AT AR Sub-Types related to plant equipment problems and program deficiencies.
 - Blank: AT AR Sub-Types with a blank which does not allow characterization into a defined category.
 - Procedures: AT AR Sub-Types related to procedural problems, deficiencies or proposed changes/enhancements.
 - Licensing/Regulatory/Industry: At AR Sub-Types related to interfaces and communications with local, state, and federal agencies and industry experience groups (e.g. INPO, WOG, etc.)
 - Other: AT AR Sub-Types that do not fit in one of the other categories and relate to tracking of special projects (e.g. Copper Removal, 2-3 EDG Installation, Eagle 21, etc.)
 - Tracking: AT AR Sub-Types utilized for tracking and documentation purposes. Items in this group are not considered workload.
 - Design Change Vehicle: AT AR Sub-Types related to authorization implementation of change to the plant configuration (e.g. AT-DCPP, AT-MM, AT-RPE, etc.)
 - Corrective Maintenance: All CM Type AR's assigned to engineering for disposition.

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Performance Measures

Missed Surveillances Reportable missed surveillances, including missed RT STP's and LCO surveillanced requirements. Near Misses Missed Surveillances that were not reportable because LCO time limits were met or ECG Surveillances. ECG extensions needed because LCO's cannot be met. **ECG Extensions** STP Performance Errors Performance errors that invalidated the surveillance results. **Components on Alert** Components on ALERT testing frequency per TS 4.0.5. STP Past Due STP's Past RT due date, but within the 25% Tech Spec grace period (Weekly Trend). **Overdue 2nd Reviews** Timeliness of completing review and closure of W/O's after performance (# STP's past 14D).

Surveillance Test Program Status

Our Goal for the tracked items above is zero. Currently we have 1 Missed Surveillance, Near Misses, 1 ECG Extension, and 1 STP Performance error.

There are 3 Components on Alert. All have action plans to remove them from Alert testing status.

We have 9 STP's Past Due, but within 25% grace period. This has a negative trend for during the outage. 4 of these are outage related surveillances that are due when we reach stable conditions. Several of the past due STP's involve STP M-77 stage/install/rebuild RV that is awaiting rebuild. Testing has actually been completed.

We have 13 STP's with Overdue 2nd Reviews. The performance in this area has been significantly impacted by backlog from 1R8.

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ENGINEERING SERVICES/DESIGN ENGINEERING SERVICES DRAWING REVISION INDICATOR

GOAL: None Overdue

PERFORMANCE STATUS

Total Priority I Drawings - Backlog and Overdue



Total Priority II Drawings - Backlog and Overdue



COMMENT:

In each of the two figures, the upper curve tracks the total number of Priority I or II drawing revisions, assigned to the ES and DES drafting groups, awaiting incorporation and issuance. The lower curve in each figure tracks the number of these drawings that are overdue - the drawing revision not approved within the 30 day or 90 day limit after installation, as tracked in PIMS.

As of June 26, 1997 in NTS, there were 366 drawings overdue. One hundred eighty one (181) priority I and one hundred eighty five (185) Priority II status. In Engineering Services (ES), there were eighty one (81) priority I overdue drawings and one hundred sixty two (162) priority II. The goal was not achieved primarily due to the inflow of a huge number of drawings for incorporation during and after 1R8 when NTS received over 1500 drawings to modify. This overwhelmed our production capacity leading to the large number of overdues; 144 drawings were modified in June at DCPP. The number of overdue's will stay high for several months as we work off this flood of drawings.

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PROMPT OPERABILITY ASSESSMENTS

GOAL: Prompt Operability Assessments are "Timely" and "High Quality"

- Quality Plan PIP Goal
 - No NOV's, NCV's or weaknesses identified in NRC Inspection Reports (0.25)
 - No NOV's or NCV's but some weaknesses identified in NRC Inspection Reports (0.125)
 - Any NOV or NCV on POA's (0.0)
 - Current Status:

Weaknesses	NCR	NOV	PIP
0	0	0	0.25

NOTE: The May Report Card discussed a potential weakness identified by the NRC Resident for a POA generated in April. This was characterized by the resident in the latest Inspection Report as a weakness in problem identification (i.e., AR not generated in a timely manner), and not in POA timeliness or quality.

- There were 2 POA's generated in the month of June.
 - Both were considered timely and of good quality.
- POA status (refer also to chart on next page)



 Currently none of the active POA's are forecasted to remain open beyond the completion of 2R8.

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JUNE 1997 ·

FAD Number	NO A PLAN		M Deen W	ANALY AN ANALY MALE AND TRADE A	
MAR HUILDOL	A CAL		<u>s respo</u>	Description	Actions to Close/ECD
AU3/1010	02	PGMC	JLP4	(2R8) CCW-2-26 HARD TO OPERATE/STEM SHEARED	Replace Damaged Valve in 2R8 (W/O C0136184)
A0390857	1 04	NCEX	PFB2	INFOGRAM 95-012A, SCC UPPER INTERNAL GUIDE TUBE SUPPORT	Determine Applicability to DCPP / ECD - 6/30/97 (ref: AE-02)
A0407964	05	PGMB	RTH1	U-2 TGMB "B" BOTTLE PRESSURE LOW	Unit 2 MBT's to be replaced in 2R8
A0414083	06	PTEE	TRB1	FE-917, CHARGING INJECTION HEADER FLOW UNCERTAINTY	Replace FE-917 in 2R8 (ref: DCP's N-050364)
A0417024	01	PGMB	RTH1	PREPARE POA FOR CFCU AGASTAT PNEUMATIC TIMING RELAYS	Relays to be replaced in Mode 1 for Unit 2 (ref: DCP E-50344)
A0419867	03	PGIE	RGJ1	UNUSED AND UNTESTED INHIBIT CIRCUIT (SSPS)	Circuits to be removed in 2R8 (ref: AT-MM A0419969)
A0420022	02	NRAM	DFB4	EVALUATE REVISED SETPOINT UNCERTAINTIES IN J-54 REVISION	Replace RWST Level Transmitters 2R8 (ref: DCP J-50363)
A0421063	03	PTEN	JMHe	PDP FUILD DRIVE WILL NOT MAINTAIN ITS LUBE OIL PRIME - UNIT 1	Rebuild Fluid Drive / ECD - 7/97 (ref: WO C0152516)
A0425148	01	PTEZ	FCL2	MISSING BOLTS ON CFCU 2-4 VENT DUCT CONNECTION	Correct Conditions in 2R8 (ref: AT-MM A0426313)
A0425152	01	PTEZ	FCL2	MISSING BOLTS ON CFCU 2-5 VENT DUCT CONNECTION	Correct Conditions in 2R8 (ref: AT-MM A0426313)
A0425982	06	PTES	PEM1	DISCOLORATION OF AFW PUMP 2-3 BEARING OIL	Trend during STP and inspect and/or repair during 2R8 (ref: W/O C0151307)
A0426705	01	PGMC	JLP4	MANUAL VALVES CCW-4 AND CCW-5 UNTESTED SAFETY FUNCTION	Perform STP V-3H15 in 2R8 (ref: AE-02 and W/O R0169809)
A0427518	11	PTES	JSB1	MFW PUMP STOP VALVE CLOSING TIME NOT TESTED	Perform STP V-3P7 in 2R8 (ref: W/O R0170695)
A0427530	09	PGMA	SAK1	MSIV ACTUATOR DEGRADATION	Inspections and/or refurbishment in 2R8 (ref: WO's referenced in body of AR)
A0433954	01	PTEN	JMHe	USE OF RTV-732 INSIDE CONTAINMENT - UNIT 2	Update Calculation N-217 to account for use of RTV
A0434046	06	PGMB	RTH1	CFCU HIGH AND LOW SPEED POWER LEAD SPLICE DISCREPANCY	Inspect leads and repair as necessary during 2R8 (ref: WO C0152262)
A0437817	01	NCFC	LJS2	IMPINGEMENT SUPPORT CLEARANCE CONFLICTS WITH FSAR	Revise applicable calc and perform modifications (ref: AE-02) / ECD-7/25/97
A0438275	01	PGMC	MASI	INCORRECT STATIC HEAD CORRECTION IN STP V-13A	Revise Calc M-916 and perform STP V-13A (ref: Body of AR) / ECD-7/22/97

OPEN POA's for Month of June, 1997

POA's Initiated in June, 1997

	Contraction of the second of		
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1/10430213	;	INCORRECT STATIC REALTCURRECTION IN STRV-13A	
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POA's Closed in June, 1997 - None

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DCN STATUS REPORT

AT-MM STATUS



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FCT BACKLOG



	· · · · · · · · · · · · · · · · · · ·	GOAL	ACTUAL	
•	FCTs Not Processed	Zero	14	
•	FCTs Not Reviewed	Zero	11	
•	AT-DRWG Type ARs to be closed	Less than	0%	
	within 90 Days of Initiation	10%	•	

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Unit 1 - 2 during 1R9 and 5 being considered for permanent installation.
Unit 2 - 6 to be removed during 2R8, 1 to be removed in 2R9.

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JUNE 1997

OPERATOR WORK AROUND LIST

IITEM, NO.	BRIEF DESCRIPTION	ASSIGNED TO DATE	ACTION PLAN DATE COMPLT	ACT PLN ≤30 DAYS-	ECD	COMMENTS
SN PALSS			PERATORWORKARO	UNDS		AREAS AND AND AND AND A
2.	SCREEN REFUSE PPS CYCLE EXCESSIVELY A0418235, A0415069	 ICE/JAP 	NEW			MPAT AUTHORIZED FUNDS TO DESIGN AND PROVIDE A COST EST. ON A NEW LEVEL SWITCH
4.	U1 TURNING GEAR ENGAGE A0386771	ICE/WHY	6/10/97	N/A	1R9 or Forced Outage	TROUBLE SHOOTING COMPLETED DURING 1R8. 2 OPTIONS FOR CORRECTIVE ACTION: *ADD SNUBBER TO PS- 600 *INSTALL TIME DELAY IN CONTROL CIRCUIT
5.	HTR DRAIN TK-PWR SUPL A0412890	ICE/RCW 09/09/96	12/11/96	NO	2R8	USE A FISHER WIZARD PNEUMATIC CONTROLLER - FUNDING APP'D (U1) COMPLT 1R8 (U2) AT-MM ECD 7/31/97
6.	MFP SUCTION RELIEFS LIFT A0421173	SECND/JSB 01/09/97	01/10/97	YES	2R8	REMOVAL OF RV-33/34 (U1) COMPLT 1R8 (U2) SCHED 2R8
8.	CYLINDER HEATING STM PCVS WILL NOT CONTROL IN AUTO	SECND/LRE	NEW			TROUBLE SHOOT AND , REPAIR
2012年2月			OPERATOR BURDEN	/S 24492283	SUISSES AND	an the second the second s
3.	U2 MBT B LEAKING N ₂ A0407964	ICE/JXG	10/16/96	YES	2r8	REPLACE U2 MBTS
4.	CND-2-2171 & 2184 LEAK BY A0424524/A0424518	SECND/DLK	2/25/97	YES	TBD BY P/S	REPLACE WITH BALL TYPE VALVES RPE ISSUED C0150293
6.	WASTE RECOVERY SYS BACKWASH A0420563	ICE/JLB 02/12/97	02/27/97	- YES	TBD BY P/S	AT-MM AR A0433324 ISSUED 5/27/97
8.	CAUSTIC STO TKS DO NOT CONTROL TEMP A0405432	ICE/FJC 02/14/97	02/27/97	YES	TBD PENDING VENDOR INPUT	ADD A TEMP SENSING ELEMENT TO CONTROL SCHEME
9.	NEW HYDRAZINE INJ PP (HE CIP X-7) LOSE THEIR PRIME A0423188	SECND/JSB	4/24/97	YES		PUMPS ADJUSTED - NOW OKAY

TOTAL COMPLETED PAST 2 YEARS

67%

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ITEMS REQUIRING RESOLUTION 10 = 20

ITEMS COMPLETED RESOLUTION = 30

TOTAL NUMBER OF ITEMS =

% COMPLETION

NUMBER TO GO AWAY IN 2R8

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PROCESS OWNER STATUS

PROCESS	STATUS	OWNER	COMMENTS
AT-MM AR	٢	Hari Iyer	Self-Evaluation in Progress
Calculations	<i>→</i>	Tom DeUriate	AR A0427185 and Rev. of procedure.
50.59/LBIE	→	Bob Cahn	Revised LBIE Procedure TS2.ID2
DCM ·	0	Doug Spaulding	5/30/97 forecast procedure revision will resolve most recent concerns.
FSAR	٩	Roger Johnson	New Project-FSAR Issues
PCD	↓	Frances Chew	Two missed commitments in Feb. See AR A0424166.
Component Data Base (CDB)	\rightarrow	Don Shelley	Enhance program based on 1R8 Lessons Learned
Post Maintenance Testing (PMT)	٩	Bob Savard	
Surveillance Testing (STP)	\rightarrow	Ed Chaloupka	(See Page 6)
Prompt Operability Assessment (POA)	Ť	Bob Waltos	(See Page 7)
Operability Evaluations (OE's)	↑	Pat Nugent	
Drawing Control/Updates	\rightarrow	Nilesh Patel	ADVANCE Growing Pains
Maintenance Modification Packages (MMP)	\rightarrow	Hari lyer	Self-Evaluation in Progress

<u>Status Indicators:</u>

- COOD Meeting or exceeding all expectations with no outstanding issues or areas for improvement.
- → ACCEPTABLE Meeting expectations with some minor outstanding issues or areas for improving.
- **POOR** Not meeting expectations and/or significant outstanding issues.

MAJOR PROJECT STATUS

(Large Projects with an active "Project Agreement")

PROJECT	MANAGER	PROGRESS	COMMENTS
ASW Bypass .	B. Patton	\rightarrow '	Plans on track for Unit 2 tie-in during 2R8.
Penetration Seals	G. Brault	. ↓	Additional funding being pursued by MPAT.
MSSV's	S. Allen	\rightarrow	
GL 96-01	C. Pendleton	\rightarrow	
Turbine Bldg. Siding	M. Yashar	\rightarrow	Added Buttress Building roof to scope of project.

Status Indicators:

- **Good -** Projecting ahead of schedule and/or under budget.
- \rightarrow On Track Projecting on schedule and meeting budget.
- ↓ **Poor -** Projecting behind schedule and/or over budget.

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MAINTENANCE RULE PERFORMANCE SUMMARY

Systems Currently in Goal Setting:

• MSSV's - Unit 1 & 2

- Vital 480V Unit 1 & 2
- Vital 4kV Unit 1 & 2
- FHB HVAC Unit 1 & 2
- SPDS Unit 1 & 2
- Intake Structure
- Turbine EH Unit 1 & 2
- CFCU HVAC Unit 1 & 2
- PDP Unit 1 & 2 (U1 NEW)
- ASW Pumps -Unit 1 & 2
- MFW Pumps Unit 1 & 2
- RHR FIC-641A/B Unit 1 & 2



MAINTENANCE RULE PROGRAM REVIEW

[r · · · · · · · · · · · · · · · · · · ·	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
D	Task Name																	
1	Phase I. Scoping Review									сом								
	2018 - 17章 明阳 事 - 14						1	l '	Íľ	۳ 0	1	i i	1					
7	Phase Ia. Structural Monitoring										MPLE	ΓE		`				
12	Phase II. Risk Significance Review]							
							İ				MPLE	TE						
18	Phase III. Performance Criteria Review					🗕	c	DMPL	ETE									
23	Phase IV Monitoring and Goal Setting								l ho	L MPI F	te .		ŀ					
~	rhase for monitoring the over octaing				-						/ -							
29	Phase V. Inspection																	
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36	NRC Inspection											7770	Ļ					
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A significant milestone has been achieved in that goal for AR MRFF review has been met for the first time.

- Two SE Maintenance Rule training sessions are scheduled for 6/11 & 6/25. These sessions focused on the review of NRC MR audit issues, and the latest MR documentation.
- SE Maintenance Rule binders were given to all SE's on 6/25/97.
- MR NRC Inspection scheduled for 7/7/97 through 7/11/97.

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CIVIL MAINTENANCE RULE WALKDOWNS

Goal: All AR's and AE's generated as a result of Civil Maintenance Rule Walkdowns, requiring action by NTS, will be dispositioned by July 1.

This is a "stretch" goal designed to both prepare for the July NRC Maintenance Rule Inspection and prevent additional impact on the NTS Workload.

<u>CURRENT STATUS:</u>	<u>AR's</u>	<u>AE's</u>
Total Written to Date	770	293
Number in History/Complete	391	199
Number with Maintenance	275	60
Number Remaining with NTS	104	34
NCEC	17	6
NCFC	64	17
NCFE	1	· 0
NPEQ	17	2
PTEB	1	1
NCEZ	0	1
· PTEZ	[,] 3	1
NCFP	1	0
TEMS	0	3
' NCFD	0	1
NCSS	0	1
PGMC	0	1

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25 Number of Impairments 20 15 10 ß β 5 0 4/28/97 2/11/97 3/4/97 4/1/97 5/27/97 5/17/97 ज Unit 0 Unit 2 Unit 1 FIRE SYSTEM IMPAIRMENTS BY AGE 45 40 35 Age (Months) 30 25 $\overline{20}$ 15 10 5 0 सम All Pen All Pen Seals HP CO2 **Joor 124** Barrier Damper Seals File Fire 🖽 Unit 0 Unit 1 Unit 2

TOTAL FIRE SYSTEM IMPAIRMENTS Goal: < 3 per unit and > 3 weeks old

- Only impairments > 3 weeks old are tracked to allow appropriate scheduling to support the 3 week schedule freeze.
- The two 41 month old, Unit 1 & 2 Pen Seal Impairments will be resolved by the end of 1997 with the implementation of the Pen Seal Program.
- The HP CO₂ Impairment will be removed with the completion of STP M39F scheduled for 07-22-97
- Door 124 requires a new door. The door has not been ordered and no W/O has been written.
- The Unit 2 Fire Barrier is a result of a junction box within a one hour rated fire wall located in the Rad Protection Foremen's Office. DCP A-50330 has been issued to enclose the junction box . OSSP has scheduled to start work on 07-08-97 and complete on 07-25-97. (WO #C0152657)
- The Unit 2 Fire Damper parts for repair are on order and is scheduled for repair on 07-10-97 per W/O# C0151366.

JUNE 1997

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Design Engineering Services Quality Plan

Section V - Performance Data

GOAL 3 - TIMELINESS AND QUALITY OF TECHNICAL SUPPORT

Evaluation: Starting this month, we are dropping the "Customer Feedback" portion due to limited and spotty input. The more consistent source of feedback has been the "ES Manager/Director Feedback" which beginning this month we are expanding to include HBPP feedback. As a result, beginning next month we'll retitle the ES feedback as "Customer Feedback."

The feedback comments over the past few months have indicated that performance has improved. However, for April, there were a few instances where there were problems with the quality or timeliness of our support to DCPP. A contributing cause has been the loss of personnel from DES straining the existing resources to meet work requests with adequate time.



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Attachment B - Engineering Services Manager and Directors Feedback

In the interest of improving our future support of NPG's needs, we're requesting your feedback to help us improve. We'd like to take about five minutes of your time to interview you. When we're finished we'll give you a copy of our notes.

Engineering Services point of contact: XXXXX

DES point of contact: Dave Tateosian

Date of feedback: May 13, 1997

For the month of: April

Form of feedback: In Person Phone E-mail (Circle One)

In supporting Engineering Services during the past month, what did we do well?

- The ES Directors do value you guys. No one is asking when are you guys going to go away.
- Good support of the cracked weld on the reheat piping. This was a good example of what the organization can do when it works well together.
- The DCP to raise the CCW temperature limit to 140F was well done and thorough.
- Involvement and support to the outage.

In supporting Engineering Services during the past month, what could we have

done better?

- The Intake Crane is running wonderfully well, but the aux hook running into the snorkel and the last minute flail on the seismic clips were a problem. May need more involvement on site and in Rev A meetings by DES.
- Would appreciate more involvement in 2R8.
- Rev A process get the plant involved early.
- Would like to see us at DCPP more not just to hang around, but when it makes sense.

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the TIMELINESS of our response in the last month? 1

2 3 (Circle one) 5

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the QUALITY (thoroughness, accuracy, complete and appropriate coordination with others involved) of our response in the last month?

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1 2 3 <u>4</u> 5 (Circle one)

In the past month, how has our performance improved or worsened?

• Asking for feedback is good. It seems to be reflected in improved performance.

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<u>Attachment B - Engineering Services</u> <u>Manager and Directors Feedback</u>

In the interest of improving our future support of NPG's needs, we're requesting your feedback to help us improve. We'd like to take about five minutes of your time to interview you. When we're finished we'll give you a copy of our notes.

Engineering Services point of contact: XXXXX

DES point of contact: Dave Tateosian

Date of feedback: April 30, 1997

For the month of: February

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Form of feedback: <u>In Person</u> Phone E-mail (Circle One)

In supporting Engineering Services during the past month, what did we do well?

• Anil Kar coming in on his Monday off to help on the high 480V bus voltage was a help.

In supporting Engineering Services during the past month, what could we have done better?

- Quality of work products is not up to snuff. It's not getting an adequate checking job.
- The design for the 4kV Bus wiring was not consistent. Buses F and H were wired differently than G. Bus G was correct as was all of Unit 2 which was installed during the last outage. This necessitated additional FCs and delayed Bus F. Another example of declining quality.
- When stuff is getting bumped out of PSRC we're losing the momentum. The schedule seems to always stretch out. We're not keeping ES informed of our recovery plan. Tom is having to go directly to engineers.
- Have a better way of getting a hold of people. Keep a key contact list in the OCC. [This was subsequently done and is updated each week.]
- CFCU timer DCP had a sneak circuit in it that was detected during testing. It should not have been in design.
- SUT The quality of the DCP was lacking (the startup logic was not correct, terminal points were missing or incorrect). These should have been caught in checking. The issue is not the FCs to roll in vendor data since that was pre-planned. Some FCs were due to the wiring arrangement not being in accordance with Grid Mtce standards. This interface should have been addressed up front in the design..

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On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the TIMELINESS of our response in the last month?

1 2 <u>3</u> 4 5 (Circle one)

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the QUALITY (thoroughness, accuracy, complete and appropriate coordination with others involved) of our response in the last month?

<u>2</u> 3 4 5 (Circle one)

In the past month, how has our performance improved or worsened?

- Implementation of outage DCPs has highlighted declining quality in our work products
- We're not doing as good a job of keeping Tom informed.

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<u>Attachment B - Engineering Services</u> <u>Manager and Directors Feedback</u>

In the interest of improving our future support of NPG's needs, we're requesting your feedback to help us improve. We'd like to take about five minutes of your time to interview you. When we're finished we'll give you a copy of our notes.

Engineering Services point of contact: XXXXX

DES point of contact: Dave Tateosian

Date of feedback: April 30, 1997

For the month of: April

Form of feedback: <u>In Person</u> Phone E-mail (Circle One)

In supporting Engineering Services during the past month, what did we do well?

 Identification of the new failure scenario for CCW was handled well in notifying ES and supporting notification of the Shift Supervisor.

In supporting Engineering Services during the past month, what could we have done better?

done better?

4.

- When the CCW issue was identified, it was placed in INVIDIO status. While everything was handled well, both ES & DES could have had a more questioning attitude on whether it should have been a POA. On the surface it appeared it was a POA The call was made with Process Owner's input who may not have had all the input.
- With turnover in the BOP Director from Bob to Raymond, while he got a turnover from Waltos, we also should have recognized the need to update him on near-term or critical activities. Being new in the position and to the current issues in the job, he got surprised by DCM changes as a result of the 140F DCP and ASW cross-tie valve upgrade.

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the TIMELINESS of our response in the last month?

1 2 3 <u>4</u> 5 (Circle one)

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the QUALITY (thoroughness, accuracy, complete and appropriate coordination with others involved) of our response in the last month?

1 2 3 <u>4</u> 5 (Circle one)

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In the past month, how has our performance improved or worsened?

• Don't have a basis for evaluation.

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<u>Attachment B - Engineering Services</u> <u>Manager and Directors Feedback</u>

In the interest of improving our future support of NPG's needs, we're requesting your feedback to help us improve. We'd like to take about five minutes of your time to interview you. When we're finished we'll give you a copy of our notes.

Engineering Services point of contact: XXXXX

DES point of contact: Dave Tateosian

Date of feedback: May 15, 1997

For the month of: April

4

Form of feedback:In PersonPhoneE-mail(Circle One)

In supporting Engineering Services during the past month, what did we do well?

- DES support for the outage has been a great help Ed DuBost and Lou Pons (from NSAL) on test team and Javid on the TG HIT team.
- Mark Schletz support on SG HIT has been very much a savior. He has taken several big issues and resolved them during the past three weeks.
- Henry Thailer has been helpful in the issuance of Stabilizer MMP (this is mostly May work).

In supporting Engineering Services during the past month, what could we have

done better?

- The nozzle dam 50.59 started out slow and moved quickly to resolution once the facts got assembled.
- The resolution of MFW RV-33/34 removal was also slow and took lots of coordination between site and DES. Again, the final product was right and acceptable, but the path not always straight to the solution.

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the TIMELINESS of our response in the last month?

1 2 3 <u>4 5</u> (Circle one)

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the QUALITY (thoroughness, accuracy, complete and appropriate coordination with others involved) of our response in the last month?

2 3 <u>4 5</u> (Circle one)

In the past month, how has our performance improved or worsened?

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- I think that the areas to improve on are happening...turbine warranty issues are being shared between Rich and myself as the LP is repaired back in Charlotte. The results of ISI visits to Charlotte are being sent up to Rich and Javid for their review.
- Continued support for the IST program is very important due to the NRC Audit scheduled for July 14-18, I really want to have Bob Hollingsworth available for it.

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<u>Attachment B - Engineering Services</u> <u>Manager and Directors Feedback</u>

In the interest of improving our future support of NPG's needs, we're requesting your feedback to help us improve. We'd like to take about five minutes of your time to interview you. When we're finished we'll give you a copy of our notes.

Engineering Services point of contact: XXXXX

DES point of contact: Dave Tateosian

Date of feedback: May 1, 1997

For the month of: April

Form of feedback: <u>In Person</u> Phone E-mail (Circle One)

In supporting Engineering Services during the past month, what did we do well?

- Appreciated DES involvement on TCV-130. We were proactive in inserting ourselves on the issue and holding up the mirror and asking is this the right thing to do. Also contributed technically.
- More or less keeping drawing backlog at zero plane exceeded the goal on preincorporation.
- ASW meeting preparation and the meeting itself went very well. Everyone satisfied with results.
- Good support on the cold reheat line crack, both technically and on site. This went as well as it did because it was a rapidly evolving situation and we were interacting in person and not having to do it on the phone.

In supporting Engineering Services during the past month, what could we have

done better?

- Need to follow up on DIRT (Drawing Issues Resolution Team) and help get it kicked off.
- MSSVs When we handled the MSSV interference we handled the bowl stack interference but not the internal stack to external stack interference. The "big picture" thinking is not always there. We're smarter now.
- Intake crane On the AT-MM AR we did not follow the procedure for prepping a AT-MM. Several activities required to be performed were not done. There was a lack of procedural compliance. Some led to the problems over the weekend preceding the outage.
- Need to do a lessons learned on weld overlay project. We need to work with OS to determine what is the role of the PM when we're outsourcing the construction work.

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On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the TIMELINESS of our response in the last month?

1 2 <u>3</u> 4 5 (Circle one)

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the QUALITY (thoroughness, accuracy, complete and appropriate coordination with others involved) of our response in the last month?

2 3 <u>4</u> 5 (Circle one)

In the past month, how has our performance improved or worsened?

• People are continuing to work well together on drawing issues.

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• Consider adding a Q-Plan goal on Civil Maintenance Rule work gets worked off by July 1st

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<u>Attachment B - Engineering Services</u> <u>Manager and Directors Feedback</u>

In the interest of improving our future support of NPG's needs, we're requesting your feedback to help us improve. We'd like to take about five minutes of your time to interview you. When we're finished we'll give you a copy of our notes.

Engineering Services point of contact: XXXXX

DES point of contact: Dave Tateosian

Date of feedback: April 30, 1997

For the month of: April

Form of feedback: <u>In Person</u> Phone E-mail (Circle One)

In supporting Engineering Services during the past month, what did we do well?

- Doing a better job of coordination, example of GL97-01 issue manager.
- The hand-off from Lynn Walter to Mark Smith seems to have gone well.
- Sump issues are going well, getting Bob Hess in place helped, but we need to work on keeping everyone aligned. Jeff and Remzy's trip up helped get everyone together, but then everyone seemed to drift apart again causing us to need to meet again. It is a complicated issues which makes keeping everyone aligned all the more difficult. This isn't really so much an issue of the people involved, but rather Management not getting a single responsible manager identified.

In supporting Engineering Services during the past month, what could we have

done better?

- Both DES's NCM and ES's RX Engineering missed the change in the axial blankets in the RSE. It finally got caught when the DCP was prepared.
- We're still waiting for the answer on the small break LOCA case for sump. What could DES be doing better to manage "W".

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the TIMELINESS of our response in the last month?

1 2 3 <u>4</u> 5 (Circle one)

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the QUALITY (thoroughness, accuracy, complete and appropriate coordination with others involved) of our response in the last month?

1 2 3 4 <u>5</u> (Circle one)

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In the past month, how has our performance improved or worsened?

• Coordination is getting better.

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<u>Attachment B - HBPP</u> <u>Manager and Directors Feedback</u>

In the interest of improving our future support of NPG's needs, we're requesting your feedback to help us improve. We'd like to take about five minutes of your time to interview you. When we're finished we'll give you a copy of our notes.

Engineering Services point of contact: XXXXX

DES point of contact: Dave Tateosian

Date of feedback: May 14, 1997

For the month of: April

Form of feedback: <u>In Person</u> Phone E-mail (Circle One)

In supporting HBPP during the past month, what did we do well?

- The last couple of DCNs have been excellent. The penetration DCN was very well written.
- Timeliness is excellent.
- Having the focus you do these days on HBPP.

In supporting Engineering Services during the past month, what could we have

done better?

- Having a better understanding of the HBPP design basis.
- Spend more time up here. Become part of HBPP without becoming a part of HBPP. You need to become a part of us (know us so well that you understand our thinking and perspectives) without becoming a part of us.
- Include construction/fabrication tolerances tolerances in your designs.

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the TIMELINESS of our response in the last month?

1 2 3 <u>4</u> 5 (Circle one)

On a scale of 1 to 5, with 1 being unacceptable and 5 being exceeded expectations, on average, how would you rate the QUALITY (thoroughness, accuracy, complete and appropriate coordination with others involved) of our response in the last month?

1 2 3 <u>4</u> 5 (Circle one)

In the past month, how has our performance improved or worsened?

• The experience level of people working on HBPP is improving. We're having to ask less questions. There's a better understanding of our needs and issues.

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• HBPP is asking a lot more of you these days (work volume and performance expectations) and you're handling it well.

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Section V - Performance Data

GOAL 4 - TIMELINESS OF CORRECTIVE ACTIONS

Evaluation: Performance in March continued to meet our performance goals.



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Section V - Performance Data

GOAL 5 - HIGH QUALITY OF WORK RATINGS BY OVERSIGHT ORGANIZATIONS

Evaluation	on: The First Period 1997 (1997) OPAP rocults are reflected here. NTO Finite in the internet of the second se				
Lith the NDC OVD to discuss an event of the second state of the se					
with the NPG SVP to discuss the actions being taken to improve performance in response to the 1P97 QPAR. DES, in					
concert with ES and NSAL, is working to support NTS's integrated plan to address workload management.					
QPAR	Overall Assessment: Performance Needs Improvement				
	Strengths:				
	 Management of Industry Issues 				
	Weaknesses:				
	Licensing Issues and Concerns				
	Positive Trends & Issues:				
	Questioning Attitude				
	Operation Focus				
	Negative Trends & Issues:				
	ECCS Integration				
	Workload Management				
NRC	LERs				
	• 1-97-001-00 3/3/97 CCW operated with procedural guidance that permitted operation outside the design				
	basis				
	NOVs				
	 No NOVs attributed to DES performance 				

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Section V - Performance Data

GOAL 6 - EXCELLENT PROJECT MANAGEMENT

Evaluation: Design Change Packages: In April all DCP's were completed on schedule, thus we made our goal of issuing 100% of our Design Change Packages on the agreed schedule.

The DES workload is actually greater than represented by the total of DCNs, FCTs, NCRs, QEs, ARs and AEs. Examples of work tasks that are a part of the DES worload but are not represented by this data are support of HBPP, HLW (dry cask, re-racking), decommisioning study, and the Licensing and Design Basis Affirmation Project (LDBAP).



Design Change Projects Forecast Within Original Approved Cost

Authorization Plus Approved Changes

PROJECTS

COST FORECAST **ERFDS/SPDS Computer Replacement Unit 1** Within Authorized Cost **ERFDS/SPDS Computer Replacement Unit 2** Within Authorized Cost **Diesel Fuel Oil Underground Tank Replacement** Within Authorized Cost Within Authorized Cost **Replace Main Bank Transformer Unit 1** Within Authorized Cost Replace Main Bank Transformer Unit 2 **Replace Startup Transformer 1-1** Within Authorized Cost **Replace Startup Transformer 2-1** Within Authorized Cost Within Authorized Cost Upgrade Control Room CIV Indications Unit 1 Upgrade Control Room CIV Indications Unit 2 Within Authorized Cost



OUTAGE	MILESTONE DESIGN ISSUE DATE	% ISSUED BY MILESTONE DATE	% ISSUED BY MILESTONE DATE OR APPROVED EXCEPTION
1R8	11/19/96	85% *	100%
2R8	8/24/97		

The remaining DCP's are associated with the Startup Transformer changeout. These DCP's were added to the outage with the approval and understanding that they would be issued after the milestone date.

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Section V - Performance Data

GOAL 7 - LEADERSHIP

Evaluation: The baseline scores from the EOS reflect R&DS results since DES did not exist at that time. The follow-up survey was conducted in February and had a 25% response rate within DES. While scores increased in 2 of the 4 the areas, all measures are still below the goal of 50% favorable that we set for ourselves. All written responses are also included, grouped by the question they most closely align with. The key issues to address are resolving the future of the General Office and more effective utilization of the pay systems. To address these issues, NTS Management has been actively meeting to chart the future course of the General Office, HR has been asked to ensure that the salary benchmarking effort for this year's merit reflects current market conditions within the nuclear industry, and we've also asked HR to use the benchmarking to see how other nuclear utilities account for differences in cost of living in their salary implementation. The survey that was scheduled for May will not be conducted because in hindsight conducting a survey every six months seemed excessive.



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Design Engineering Services Quality Plan

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Section V - Performance Data

GOAL 7 - LEADERSHIP February 1997 Follow-up Employee Opinion Survey Comments

Question 1 - The Manager and Directors demonstrate an interest in employees while making changes

"If you guys are doing something on these issues, you sure do not communicate it to us."

"For a world class Engineering staff why is management (manager & director) involvement in details required so often. The atmosphere is that we are always fighting fires (major 4 alarm). This leaves top management with no time for strategic planning. The director and manager do not walk the floors to talk to the employees (1 minute manager). People who create crisis atmosphere get recognized and rewarded."

"I really, really want to circle 1 @ 2 & 4, but <u>one</u> supervisor is keep annoying us. He does not like 'Design Engineers.' His morale is not healthy."

Question 2 - Management walks the talk

One individual marked "3" for question (2) "Management walks the talk" and wrote this in the feedback section: 2.a) Directors - "4", b) Manager - "3", c) Supervisor -"2".

"1. Everybody is pretty much too busy to be interested in anything beyond what's on their plate. If there were to be any interest, it would pretty much be limited to their own personal well being. That's just human nature."

"2. It is true that they can walk and talk."

"3. Any attempt to make this type of approach work requires a dedicated commitment throughout the organization such that a standard is established and maintained. How can this ever happen in a 'dynamic' environment where folks from the VP on down are here today and gone tomorrow?"

"4. I guess you felt that it was necessary to even ask this question."

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Design Engineering Services Quality Plan

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Section V - Performance Data

GOAL 7 - LEADERSHIP

February 1997 Follow-up Employee Opinion Survey Comments (cont'd)

Question 3 - There is a clear link between my performance and my overall pay

"Pay is not relating to performance. Lump sums are not raises. The contributions of solid technical people that do not get to work on a high profile project are not recognized. Salaries for good technical people are now higher on the outside."

"The word is that the project will need 'Generalists,' yet the pay system favors specialists. This seems inconsistent."

"On Questions 1 & 2 - Never see or heard or any change at all."

"On Question 3 - There's no link between my performance & overall pay for the reason of being a member of bargaining unit. Either you performed in an exceptional manner or not -- same amount of pay; same amount of respect. After all seniority is the only thing that governs it & nothing more."

"3. ...and improving!"

"4. General comment: Moy Basu left for more \$, others also or at least for the potential for more \$. I think we need to look at our \$ 'bands' and assess whether or not those are reflective of our work force & their talents. Personally, though I feel comfortable with my salary -- I believe the policy is that your band & where you are in your band are more clearly linked to pay than performance."

"Management engineers are treated as a commodity. Little credit is given for experience. As a result, many are seeking other opportunities. Things that can be done include: a. Finalize SF office issue, b. Recognize value to the organization in making salary adjustments. Freezer curtain is a steel curtain now. Experienced personnel have message that their salary is frozen for years. That is not motivating! Consider wider pay bands and recognize California's cost of living."

"No decisions were made to make any evaluation. Have not seen the managers/directors very much to be able to evaluate. There is no link whatsoever and there never was. How can I be convinced with 1-2% raises? We are falling behind the sanitation engineers. What morale! Telling all of us that this office will be here for 2 years is not exactly very uplifting. None of the above is only limited to DES specifically." . .

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Design Engineering Services Quality Plan

Section V - Performance Data

GOAL 7 - LEADERSHIP

February 1997 Follow-up Employee Opinion Survey Comments (cont'd)

Question 4 - Morale in my group is healthy

"#1 - There has been a change (+) since D. Tateosian took over, but improvement is still needed at both Director & Manager level -- there should be equal treatment to all groups not just Mech."

"#2 - Supervisors are in closer contact and they are good. Directors & Manager are too busy fighting fires."

"#3 - The system stinks - still favoritism & data used not accurate. Pay range needs to be done by Engineers with HR."

"#4 - Morale is low due to DCPP having preferential treatment, uncertainty about S.F. GO. Lack of appreciation of talent, finger pointing. Remarks by Bob Powers don't need engineering, etc."

"#5 - Need to show people that we care & have their interest. People are the biggest asset of company that survive.

- Settle the severance issue, promise people that they will have a job later. Management can do a lot here which they are not.
- Need to demonstrate reduction in Managers & Officers before reducing people."

"Morale has improved in the last 6 months."

"The indeterminate fact of how long I or anyone else will remain employed drives morale way down. PG&E direct employees are (many) looking for other departments or Business Units to transition to. Contractors do not maintain any loyalty or thoughts to the future with PG&E. Management is floundering trying to provide decisive direction to their subordinates. The situation PG&E finds itself in is an opportunity for leadership in the power industry and the community which it sorely is failing."

"Too many people are still looking to CES for jobs in order to find the security that they see as being missing in NPG/General Office. We are still not viewed as part of 'The Team'."

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Design Engineering Services Quality Plan

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Section V - Performance Data

GOAL 7 - LEADERSHIP February 1997 Follow-up Employee Opinion Survey Comments (cont'd)

"1. Management has not made a case what are compelling reasons to move S.F. office to site."

"2. The new DES manager appears to be candid and straightforward. But major decisions are made by VPs/Chairman, etc. and manager may not have much say in them."

"4. Uncertainty of future of S.F. office greatly affects the morale. The sooner the issue is brought to a resolution, the better."

"Morale is very low especially in Power Generation because of possibility of being moved down to a lower classification because of lack of work. You invest so much of your years with the company & this is what you get now that it is almost time to retire. We will accept any lateral move to Gas Dept."

"There is a fairly widespread perception that NPG can't change enough to survive competition. It appears that Rod Curb is the only owner of the change initiative. Errors and NRC criticism have others focused on regaining performance, which looks conspicuously like 'Business as usual.' I'm not sure that our management, or any management, will be able to satisfy the regulators and cut costs enough."

"There appears to be a significant morale problem within DES as evidenced by: 1) poor attendance at Communications meetings, 2) employees leaving NPG for other business units & companies, and 3) personal discussions with other employees. Most have very little, if any, trust at VP and higher levels of PG&E management. Most communications are not pertinent to areas of employee concerns. Many are reluctant to express their dissatisfaction to Supervisors, Directors, and Managers/VPs. This issue should take high priority."

"The problem is coming from beyond the DES management. My perception is that management is saying to me, 'You're just a commodity - we care more about cutting costs than your morale. You're lucky to have a job, and it's up to us what your future will be.' At the same time, management still has the expectation that I will have the same loyalty to the company as when the company cared about me."

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Design Engineering Services Quality Plan

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Section V - Performance Data

GOAL 7 - LEADERSHIP February 1997 Follow-up Employee Opinion Survey Comments (cont'd)

"I believe that overall there is a very poor attitude in DES which is being fed from a further deepening of the cavern between the plant and the GO. I find when I visit the site, that I am constantly being told how bad the people are in the GO and how we are doing nothing to help the plant. In cases where we have provided our assistance to help implement a new process at the site, I am constantly informed that here is another GO project being forced on the plant without the site's input. However, if one reviews the process for development, it was done with continual site input and request for more input, and is actually being created by a group at the site. I realize this sounds defensive and that is not what I want to be. I believe that this is an unhealthy view of the two groups and is fed by a lack of management direction as to what their expectations really are. I believe that the two organizations must act as a team, not as enemies. There can not be any 'us and them' concepts allowed and Management needs to strengthen their resolve in the TEAM concept and their expectations about working together. The word <u>client</u> should never be allowed to enter into anyone's conversation, it must be <u>team</u>. The collective <u>we</u> is what is important, because without it, none of us will survive. Thank you for the opportunity to discuss this, because I am very frustrated."

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Design Engineering Services Quality Plan

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Section V - Performance Data

GOAL 8 - ACCREDITED TRAINING PROGRAMS

Evaluation: The 1996 data reflects combined NSAL and DES performance. The 1997 data reflects DES-only performance.

As of April, 100% of the eligible DES population has completed the "knowledge" portion of the INPO qualification. 99% of the eligible DES population has completed the "task" portion of the INPO qualification. These statistics do not include the people that have just been added to DES for the LDBAP.

Since a critical element of an effective training program is line ownership, we will be adding a performance measure to reflect management observation of training delivery.



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Design Engineering Services Quality Plan

Section V - Performance Data

GOAL 9 - PERSONNEL SAFETY

Evaluation: Industrial Safety Accident Rate is 0 per 200,000 hours worked. In 1997 DES has worked 67,200 hours without a accident.



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Maintenance Services First Quarter '97 Quality - Plan Report

April, 1997

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This is the first quarter 1997 report on Maintenance Services Quality Plan.

Corrective Maintenance:

The corrective maintenance backlog remained essentially unchanged overall, with a slight increase in the Technical Maintenance priority 1-3 backlog in March. The leveling off of the decline seen in the later half of 1996 was not unexpected, as the craft's time was beginning to be shifted from corrective maintenance to pre-outage work, as well as dealing with the forced unit 2 outages. Technical MaintenanCe Pri 1-3 CMAR Backlog



Mechanical Maintenance Pri 1-3 CMAR Backlog

The goal for the second quarter is to not have the backlog climb, as it has during other outages, so after IRS we can continue on the path to reduce the total backlog to our goal of less than 450 non-outage CM ARs. We ended the first quarter at 760 CM ARs. To prevent the backlog from increasing, the day shift FIN team was increased in staff during the outage. While a night shift FIN was planned, it did not occur due to concerns in TM outage staffing and qualification (the low return rate in outage contractors necessitated using regular staff for the outage vs. having them dedicated on the running unit).

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The number of drip bags (an indicator of leaks in the plant) has leveled off. The goal for 1997 is to have fewer than 10 drip bags for both units. March data were not taken due to the unit 2 forced outages.



The number of rework ETRs significantly increased in March, due primarily to fastener type ARs and better reporting. The increased number of fastener ARs is due to both an increased awareness by operations regarding identifying missing fasteners, and due to the Maintenance Rule Civil walkdowns that are occurring. While many of these missing/improper fasteners are due to original construction standards, many are due to poor workmanship by current maintenance. Increased attention in this area is being applied. If you take fastener ETRs out of the rework data, the trend is good.

The number of Control Board ARs remained constant at about 147. These are all scheduled and, if a lot of new ones aren't generated as we come out of 1R8, we should be below 100 by the end of the outage. Monthly meetings are held between the TM director and Maintenance Services Manager to review the status of the control board AR reduction program. The goal is to be at or below 40 by the end of the year.

The overall age of the backlog continues to look good. The goal is to have less than 50 CM ARs of priority 1-3 by the end of the year.





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Preventive Maintenance:

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The number of preventive maintenance items past the 25% grace period continues to decline. The table below lists the overdue MM PMs, and when the PM is scheduled to be performed. Technical Maintenance had no overdue PMs at the end of the quarter.

Description	<u>Due</u> . <u>Date</u>	<u>Schedule</u> Date	<u>Comments</u>			
Crane inspection 0-MF-85-02	2/21/97	4/17/97	Coordination problem. Awaiting procedure change.			
Replace/test GW-1-RV-249	4/1/95	6/12/97	Parts and work coordination			
Replace/test GW-1-RV-248	4/1/95	6/11/97	Parts and work coordination			
Replace/test GW-1-RV-247	4/1/95	6/10/97	Parts and Work coordination			
Replace/test GW-1-RV-246	11/18/95	6/24/97	Parts and work coordination			
Replace/test LWS-1-RV-143	11/16/93	1R8	RCDT rad levels high. PM deferred by OCC 1R6 and 1R7.			
Replace/test AIR-1-RV-424	2/25/96	1R8,	Scheduling error			
Replace/test CCW-RV-49	9/24/95	1R8	Engineering/ops credit C0118954			
Replace/test MS-RV-34	9/19/96	1R8	Scheduling error			
Replace/test CCW-1-RV-186	3/22/96	1R8	May be deleted			
Replace/test CCW-2-RV-186	3/22/96	2R8	May be deleted			
Replace/test GW-2-RV-246	5/4/95	6/12/97	Parts and work coordination			

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PM/CM Ratio



The percent of all work that is preventive stayed above the 60% level, which is suggested by INPO to be acceptable.

One problem found with preventive maintenance was with the control oil system on the Maint Feedwater Pumps. There, we allowed high water content in the oil to exist for a sufficient period of time to cause a slow down of the 2-1 Feedpump, resulting in a reactor trip. An NCR has been initiated to review

and resolve the long standing issues around the Feedpump control oil system. In addition, preventive maintenance was inadequate to prevent the deterioration and ultimate failure of FCV-41 Main Steam Isolation Valve. A QE has been initiated to review the PMs relying on condition monitoring for their effectiveness.

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Procedures:

The procedure backlog appears to have decreased. In actuality, the method by which we account for the changes has occurred. Our 1997 goal is to have fewer than 167 procedures requiring to be changed before the next time the procedure is to be used. If achieved, this would represent a 33% decreased in the backlog in 1997.

The number of procedure changes increased, most likely due to the impending 1R8 refueling outage.





_____4/95 5/96 6/96 7/96 8/96 9/96 10/98 1/98 2/96 /97 2/97 3/97 □NextRev File □To be Worked **4** . .

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Training:



The percentage of students who were late to or missed training was better than our goal of 95%.

Materials:

The inventory accuracy rate consistently exceeds industry standards. This indicator will be replaced in the second quarter by the number of parts issued that are incorrect or unusable. The number of work orders delayed due to parts continued to decline during the first quarter, ending in the month of March with no work orders delayed.



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<u>M&TE</u>

The percent of M&TE that was out of tolerance was slightly above the goal of <5%. The peak in February was due to unreturned M&TE that was classified as lost, thus counting against the goal. The loss of M&TE continues to be a problem. Reports are now being provided to General Foreman listing M&TE that is outstanding.

Errors:

The number of clearance errors is relatively small, but any error with a clearance is to many. During 1R8, the number of clearance errors will be tracked weekly and compared against 2R7. Other error trends remain low. The security error have decreased dramatically, apparently due to the attention paid by individuals after the door video produced by the Security section



Errors in radiation protection practices are low. Radiation Protection just started to write ETRs for improper radiation protection practices. Supporting the fact that our radiation worker practices are adequate is the INPO evaluation, where no problems were noted in our radiation worker practices.

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Tagging errors were split between leaving an AR tag hanging after the work was complete and leaving a Red Tag hanging when it should have been removed/



Maintenance Rule:

The following tables give the systems that are in goal setting (and the reason why), and the types of maintenance preventable functional failures that have been determined (repeat maintenance preventable functional failures typically result in the system or component to be placed in goal setting). The NRC assessment of the adequacy of our program is currently scheduled for July 7-11, 1997.

Maintenance Rule Systems in Goal Setting

Unit	; SSC	I PC	Goals and Monitoring	Action	Date In	Date Out	i Status
L	1	Exceeded	l	Request	ē	1	Ì
	21	PC1	D/G 1-2 exceeded its unavailability value	A0380805	12/19/95	9/26/96	Closed
	D/G 1-2	'Availability	because of Woodward gov. problems. Goals established were less than 2 failures of all D/G's because of gov. problems, and PC1 below 163 hr/yr. Monitoring period 12/95 to 6/96.				
1/2	62 Oil Filled Xfmr	PL3 Capacity Factor Loss	Unit 1 Aux. Xfmr was damaged as a result of leaving a ground buggy installed. All oil filled xfmr. and the ground buggy program placed in goal	A0390591	3/17/96	5/24/97	Open

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1		1	setting until the end of 1R8.	1	1		
			Goals are no loss of				
			capacity or trips related to				
		.	Xfmr failures or ground			j	
			buggy problems.				
2	23	PC2	FHB Backdraft dampers	A0400203	7/2/96	12/31/96	Open
1			repeat MPFF's. Goal is no				
	FHB	Repeat	failures of BD dampers	1		Extended	
	∕ HVAC	MPFF's	because of bearing	i	1	to	
			problems. Monitoring			9/30/97	
			period to 12/31/96.				
			Additional failure occurred				
1			1/20/97, monitoring period		1		
			extended, corrective action				
	<u> </u>		revised.				
	36	PL3	The Unit was tripped	A0409758	9/23/96	6/30/97	Open
1			because of FW flow				
	Eagle 21	Capacity	problems after maintenance				
	1	Factor	on an Eagle 21 rack. Goal				
1		Loss	established is no unplanned				
			capacity factor loss due to				
		1	Eagle 21 problems.				۰.
	} '		Monitoring period to				
	<u> </u>		6/30/97.	I			
1/2	04	PC2	The Main Steam Safety	A0411805	9/19/96	12/31/97	Open
	MSSVIA	MDEE'-	valves were placed in (a)(1)	A0411818			
	10135 V S	MIPPP S	until 12/97 for repetitive				
	1		failures to fift within Tech.				
1	1		Spec. settings during				
	ļ		established are no TS				
	[5	violations as a result of				
		}	setpoint drift sticking or				
	1		errors, and no valve leakage				
	Ì		requiring a reduction in				
			power to 87% or less				
1/2	. 64	PC2	: Two MPFF's occurred in	A0415732	2/26/07	3/1/08	Onen
	1	i	1 24 months as a result of	10415752		5/1/20	Open
l	480v	MPFF's	electrical termination				ł
	Vital		problems. Unit 1 and 2				
	1		Vital systems are in (a)(1)	'		l l l l l l l l l l l l l l l l l l l	
			until 3/1/98. Goal is less				
	•		then two failures per unit of				
			vital 480 SSC's as a result			í	
			of termination problems	1		1	
2	63	PC2	Two MPFF's occurred in	A0415928	2/7/97	3/1/98	Open
			24 months as a result of				-
	4 kv	MPFF's	SF6 breaker problems. Unit				
	Vital		2 vital 4 kv is in (a)(1) until				
			3/1/98. Goals are no	l l l l l l l l l l l l l l l l l l l			
1			failures of a SF6 breaker to			ļ	
			provide vital power or	İ	ļ	ч. — — — — — — — — — — — — — — — — — — —	
1			power an aux. device.	1	l	1	

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Unit	SSC	PC	Goals and Monitoring	Action	Date In	Date Out	Status
		Exceeded		Request			
0	80	PC4f	The intake structure was	A0415942	2/7/97	1/1/00	Open
			placed in (a)(1) because of				1
1	Intake	Structural	degradation identified and				
1	Structure	Monitorin	evaluated under NCR .				
		g	N0001775. The inspection			1	
]	and repair activities			1	
			developed for the NCR are				
1			being credited under the		1		
			MR as goals and				
			monitoring. The current				
			plan is scheduled until			:	
		-	1/1/00.			.	
1/2	52	PC1	The SPDS systems have a	A0416359	2/7/97	9/30/97	Open
	CDDC	A	design availability				
	SPDS	Availabilit	commitment of 99%. The				
		У	MR history review could				
			not validate this				
			performance and the				
			(a)(1) Replacement				
	-		a)(1). Replacement		_	•	
			installed and the new				
			system will be monitored				
			for this 99% availability			,	
 			until 9/30/97				
1/2	20	PL3	Problems identified during	A0416829	2/7/97	Open	Open
			performance of STP M-			open	open
{ }	Turbine	Capacity	21C, and "O"-ring failures				
	EH	Factor	resulted in loss of plant				
	Control	Loss	capacity. The Unit 1 and 2		i i	· ·	
	Oil		EH fluid systems were				
			placed in (a)(1) indefinitely,				
			pending resolution of			ļ	
			design issues with the			ļ	
1 i	i		vendor. Goals monitored	•	1		
		4	will be no capacity loss due	\$	ſ	ļ	
			to STP M-21C failures nor	•	ļ	1	
			failed "O"-rings.			1	
	23	PC2	MPFF's occurred twice in	A0417756	2/7/97	Open	Open
	FUD	Banast	24 months on the S-2 fan	!			
		MPEE	of binding Gools for			ļ	1
	ΠYAC	WIFTF S	improved performance are				
			no failures of the S 2 - or S	2			ł
	l		I discharge damners	r F	Í	l	
			related to bearing problems	e e e e e e e e e e e e e e e e e e e			1
			until 6/30/98		ł		1
				2	}		1

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Unit	SSC	PC	Goals and Monitoring	Action	Date In	Date	Status
		Exceeded		Request		Out	
1/2	63	PC2	The B2 undervoltage relays for both	A0418008	2/7/97	3/1/98	
			units have a history of being found	}			
	4 kv	MPFF's	outside Tech Spec. limits during				
	Vital		testing. The monitoring period is				
			until 3/1/98 and the goals are no TS				
ļ			violations of as found setpoints.				
1/2	23	PC2	The CFCU ESF timers for both	A0420123	2/7/97	9/30/97	
•			units have a history of being found				
	CFCU's	MPFF's	outside Tech. Spec. limits during		}		·
		1	testing. The monitoring period is				
			until 9/30/97 and the goals are no				
			TS violations of as found setpoints.				
2	8	PC2	The Unit 2 PDP has a history of	A0421411	4/17/97	Open	
			premature valve wear and failure				
1	PDP	MPFF's	that has resulted in pump				
			inoperability and increased				
	1		maintenance. The monitoring period				
· ·			TES Sin merch value evaluation by				
			to continuo until course in				~
			determined				
- 10	17	PC2	The Unit L and 2 A SW numps had	40425240	1/12/07	10/1/09	
		102	recurring inonerability based on	A0423240	4/1//9/	12/1/98	
ł	ASW	MPFF's	STP failures Cause was excessive				
	Pumps		packing leakage. Corrective action				
			to change packing design and				
Ì			eliminate injection. Goal is not	:			
1			exceeding the packing leakage limit				
			of 4gpm described in the STP and		¥		
			checked by operator rounds.				
1/2	03	PC2	The Unit 1 and 2 MFW pumps have	A0425255	4/17/97	12/1/98	
			a history of control oil problems				
	MFW	MPFF's	which resulted in a recent trip of				
•	Pumps		Unit 2. Goals established to monitor				
			NCR N0002023 corrective actions				
			are: no capacity loss, either planned				
			or unplanned, trip header pressure				
			greater than 100 psi, and control oil				
			sample results within ISO				
	10	DCO	specifications	4.040 (700	408/08		
1/2	. 10	rc2	discharge flow controlling	AU426788	4/17/97	Open	
	FIC-		identified by the SE as having a				
	641A/D	MDEET	history of being found out of				
	UTIND	WILL 2	calibration Based on this the SE				
			requested goal setting Investigation				
			is in progress to determine the cause				
		1	and corrective action.				

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Director Focus Areas:

In a review of the data in our trending program, and the QPAR and Quality Assessments, the following Director Focus areas are closed out from the previous quarter.

- Mechanical Maintenance work package errors: MM met their goal of <5% errors based on a NQS assessment. We will look at this occasionally to ensure the error rate stays acceptably low.
- Returning equipment to service error free in TM: No errors occurred in returning equipment to service during the quarter. This, in addition to only one error in the third quarter means this item can come off the focus list. While no additional focus is required, we will look for errors in 1R8 where the most potential occurs.

The following items remain on the Director Focus lists:

- Supervisor time in the field: While we were able to improve the supervisor time in the field, INPO found several cases of poor worker practices which should have been identified by supervision. Examples include workers closing leaking valves, workers not aware of procedure level of use, and workers leaving water on the floor without containment or proper warnings. This focus area will be modified to "Improving supervisor skills". The goal of this focus area will be to improve supervisors observations skills and coaching skills, as well as setting increasing standards.
- Control Board ARs: The number of control board ARs is much higher than our goal of 40. This item will remain on the focus list until the goal is reached.

The following are new to the Director Focus Areas:

• Work Order Errors in TM: A NQS assessment of work order errors in TM showed their error rate to be comparable to that found in MM before they focused attention in this area. TM has established a goal of <5% (same as MM) and will be using feedback and accountability, as did MM, to reduce the errors.

Conclusion:

The maintenance backlog did not decrease in the first quarter. Additional emphasis will need to be placed in this area. Long term, priority 1-3 backlog under 150 (currently ~360) would place us in the best of class. Additional backlog reductions may occur with the addition of a second FIN team. After that, process improvements will need to occur.

The preventive maintenance program failed to prevent a unit trip. A QE is tracking a review of the program

The Materials organization is beginning to track parts not available within the three week schedule freeze, and in March, had no delays due to parts not available.

The maintenance rule program has placed 17 systems/components in goal setting. For almost all, action plans are established with goals that when achieved, will allow the systems/components to come ot of goal setting.

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Maintenance Services Second Quarter '97 Quality Plan Report

June 1997

This is the second quarter 1997 on Maintenance Services Quality Plan.

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CORRECTIVE MAINTENANCE:

The corrective maintenance backlog is not declining as expected. Although it is less that it was at the beginning of the year it still does not reflect the desired declining trend. The priority 1-3 Corrective maintenance backlog is increasing slightly. Some of the increase in backlog is due to the unit 1 outage and with the priority 4 items generated as a result of the Civil Maintenance Rule walkdowns. (As of August 1, the priority 4 backlog had been reduced to 229 in TM and 231 in MM)



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The goal for the third quarter is to continue to work toward our goal of fewer than 450 nonoutage CM ARs. We finished the third quarter with an increase in this backlog from 760 to 785. There is a plan for a second FIN team to aid in backlog reduction, and historically there is a greater manpower resource available after the summer vacations to work off backlog.

The number of drip bags for both units is still level at our goal of 10. This is for both the primary and secondary sides of both units.

The number of Rework ETRs grew significantly during the outage. The jobs that required rework will be evaluated to look for common causes. A preliminary review indicates that the level of performance for the temporary outage help was below expectations.



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The number of control board ARs has decreased from 147 to 90. This continues to be a focus area for Maintenance Services to assure we meet the year end goal of 40.

The number of priority 1-3 CM ARs greater than 90 days is on the decline again after growing to 128 during 1R8. We are currently at 108 with our year end goal to be less that 50.

PROCEDURES:

Changes to the presentation of procedure backlog are due to re-evaluation of procedure goals consistent with Management's direction.

After a thorough investigation, the "Next Rev file" has been eliminated as a quality indicator for procedures. The procedure issues identified in this file did not affect the overall quality of the procedure, were minor in nature, and not cost effective to implement by themselves. Procedure backlog "to be worked" has dropped to 448 procedures due to backlog being worked off and incorporation into project related tasks, specifically the 24 Month Fuel Cycle Project. The "NPG Procedure Changes" chart indicates a decrease in the number of procedure changes. This trend is consistent with past post-outage periods and follows the cyclic nature of plant activities.



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ERRORS TRENDS:

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During the outage clearance errors increased beyond what was expected. To mitigate the rise in errors management held one on one expectation meetings with personnel affecting clearances. In addition, each person who made a clearance error had their qualification pulled until they were remediated to assure a clear understanding of the process. This action resulted in a significant reduction in the error rate. An analysis of the errors showed that all the clearance errors were caused by temporary foremen. While they had all been recently trained, it became clear that the training was not effective. Additional training is planned prior to 2R8, focusing on the maintenance aspects of clearances with more practical sessions.



Security violations rose during the outage period. Although the number went up for the period, the total reflected an improvement over the performance during 2R7.

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Tagging errors were reduced to a pre outage level. The tagging errors include errors in the Red Tag process and leaving an AR tag hanging after closing the AR. The increase in Radiation Protection errors is due to the improper logging in and out of containment utilizing the new PED system. Radiation Protection is looking into ways to assure the login process in completed properly prior to picking up the PED. The actual number of contamination's and errors in Rad practices has declined.





Haz mat error tracking has improved. Periodic walkdowns are performed to ascertain progress in program compliance. During May Maintenance Services had 19 errors including four for materials. Maintenance Services had 8 errors during the June walkdown, including 2 for materials. Although this reflects improvement, continued vigilance is needed in this area to continue the downward trend in errors.

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TRAINING:

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The expectation of averaging 95% late or missed training is still being met with the exception of TM in June.. The month of May was an outage month with no training scheduled.





MATERIALS SERVICES:



The rise in OOT rate is attributed to increased post outage scrutiny of M&TE checked out to closed work orders. Test equipment not returned after contacting users and supervisors was statused as "LOST". The Increased scrutiny was implemented in response to the first quarter QA concern associated with the timelinness of dispositioning unaccounted for M&TE. The increase in February's indicator was essentially test equipment that was not returned during 2R7. Reducing outage related losses will require additional accountability for users not returning equipment.

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Materials: The Materials group continues to support the T-3 schedule with no work orders delayed due to parts during the quarter. A focus area for materials that does not have the statistics in this report is the issuance and return of material that is wrong, or is not usable. A formal cause is being performed in this area and the results will be reflected in next quarters report,

The drop in inventroy accuracy rate is due to implementation of a new American Production & Inventory Control Society approved accounting method. This new method will provide more timely indication of trends associated with inventory management practices. Materials management is reviewing the current cycle counting practices relative to their impact on this accuracy rate.



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The percent of all work that is preventive stayed above the 60% level, which is an acceptable level per INPO.

Below is the list of overgrace PM activities. There has been progress in reducing the number and it is expected that we will meet our goal of having no overdue PM activities by the end of the year.

PM WORK ORDER	ORG	DESCRIPTION	GRACE DATE	SCHEDULE DATE	COMMENTS OR PROBLEMS
R0017006	MM	Replace/test GW-1-RV-246	11/18/95	8/20/97 Act 02 8/26/97 Act 03	Parts and Work Coordination
R0109436	ММ	Replace/test LWS-1-RV-143	11/16/93	unknown	Existing valve repld. Awaiting as-found testing/inspection. High Rad levels.
R0147545	ММ	Replace/test AIR-1-RV-424	2/25/96	7/24/97 Act 03	Existing valve repld Awaiting as-found testing/inspection
R0060893	MM	Replace/test CCW-1-RV-186	3/22/96	Pulled from 1R8 by OCC	Engineering, May be deleted per AR A0313757 AE 07
R0039769	MM	Replace/test CCW-2-RV-186	3/22/96	2R8	Engineering, . May be deleted per AR A0313757
R0018433	MM	Replace/test GW-2-RV-246	5/4/95	8/27/97 Act 02 9/02/97 Act 03	Parts and Work Coordination

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DIRECTORS FOCUS ITEMS:

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The results of a review of the data in our trending program, the QPAR, and Quality Assessments identified the following.

The following items remain on the Directors focus list:

- Improving supervisor skills The goal is to improve supervisors observation skills, as well as setting higher standards for performance. This relates to an INPO finding that addressed worker performance in the field that was not mitigated by supervision. This is both a MM and TM issue.
- **Control board ARs:** Control Board ARs reflect a declining trend but still does not reflect progress that would allow us to reach the 1997 goal of 40. The responsible organization has been identified for each and there is a management expectation that they all have a scheduled date for completion.

New issues:

- Clearance errors: As evidenced by the number of errors, clearances still require attention. The number of errors remained about the same as the same period last year although the number of clearance errors of significance is less. NCR N0002029 written on the Main Lube Oil Vapor Extractor will address the clearance process, develop a root cause and a common cause and corrective actions for all organizations involved with the program.
- Crane Safety (QPAR): During 1R8 there were four crane safety incidents with two involving the polar crane. The issue of the Polar Crane contacting equipment or scaffolding is a repeat occurrence. Actions to assure this is not an issue during 2R8 need to be addressed.
- Material issues and returns: The material issue and return process has reflected a weakness identified in problems with the quality of material issued and the return of material to stock that was not utilized as part of the work order process. QE number Q00011967 has been initiated to establish a root cause and corrective action for this issue.

Conclusion:

The maintenance backlog is still not decreasing at an acceptable rate to meet the year end goal of priority 1-3 backlog older than 90 days of under 50. A second FIN team is being negotiated to help with backlog reduction. Maintenance Services is an intregal part of the Work Control Process Improvement Team that is looking at the way we initiate, prioritize, plan and schedule work. The product of this team will support achieving and maintaining a much reduced backlog.

The Materials organization continues to support the T-3 schedule by ensuring that work orders are not delayed due to parts unavailability.

The maintenance rule program has 17 systems/components in goal setting. During the last quarter two systems were taken out of goal setting and two were added.

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Attachment 1

Maintenance Rule: The following systems are in goal setting (and the reason why), and types of maintenance preventable functional failures that have been determined (repeat maintenance preventable functional failures typically result in the system or component to be placed in goal setting). The NRC has completed it's assessment of our program and the regulator team is evaluated it's findings. There were three potential NOVs identified. All of the potential NOVs had been self identified during our Maintenance Rule Self Assessment.

DCPP Maintenance Rule (10 CFR 50.65) Monitoring SSC's in (a)(1) Status (Goal Setting) June, 1997

Unit	SSC	PC	Goals and Monitoring	Action	Date In	Date	Status
		Exceeded		Request		Out	
1/2	62	PL3	Unit 1 Aux. Xfmr was damaged as a result of	A0390591	3/17/96	6/24/97	Closed
			leaving a ground buggy installed. All oil filled xfmr.	ŕ			
	Oil Filled	Capacity	and the ground buggy program placed in goal				
	Xfmr	Factor	setting until the end of 1R8. Goals are no loss of				
		Loss	capacity or trips related to Xfmr failures or ground				
		•	buggy problems.		1		
2	23	PC2	FHB Backdraft dampers repeat MPFF's. Goal is	A0400203	7/2/96	9/30/97	Open
			no failures of BD dampers because of bearing				
	FHB	Repeat	problems. Monitoring period to 12/31/96.	l .	l.		
	HVAC	MPFF's	Additional failure occurred 1/20/97, monitoring		Į		
			period extended, corrective action revised.		ļ.		
1.	36	PL3	The Unit was tripped because of FW flow	A0409758	9/23/96	7/1/97	Closed
		1	problems after maintenance on an Eagle 21 rack.				-
	Eagle 21	Capacity	Goal established is no unplanned capacity factor				
l		Factor	loss due to Eagle 21 problems. Monitoring period		1		
ļ	{	Loss	to 6/30/97.				

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Unit	SSC	PC	Goals and Monitoring	Action	Date In	Date	Status
		Exceeded		Request		Out	
1/2	04	PC2	The Main Steam Safety valves were placed in	A0411805	9/19/96	12/31/97	Open
	a		(a)(1) until 12/97 for repetitive failures to lift within	A0411818			
	MSSV's	MPFF's	Tech. Spec. settings during testing. The goals				
			established are no TS violations as a result of				
			setpoint drift, sticking or errors; and no valve				•
· ·			leakage requiring a reduction in power to 87% or				
				10445700	0/00/07	0/4/00	
1/2	64	PC2	I WO MPFF'S OCCUITED in 24 months as a result of	AU415732	2/26/97	3/1/98	Open
	400.7	MDEE's	electrical termination problems. Unit 1 and 2 vital sustains are in $(a)(1)$ until $2/1/08$. Cool is log				
	400V	WIFFFS	systems are in $(a)(1)$ unit of vital 480 SSC a as a			l •	
	Vitai		result of termination problems			ļ	
	63		Two MPEE's occurred in 24 months as a result of	A0415028	2/7/07	3/1/08	Open
-		102	SE6 breaker problems Init 2 vital 4 ky is in (a)(1)	70413320	211131	5/1/50	Open
1	4 kv	MPFF's	until 3/1/98 Goals are no failures of a SE6				
	Vital		breaker to provide vital power or power an aux				
			device.			1	
0	80	PC4f	The intake structure was placed in (a)(1) because	A0415942	2/7/97	1/1/00	Open
]			of degradation identified and evaluated under	ļ	ļ		
	Intake	Structural	NCR N0001775. The inspection and repair				
1	Structure	Monitoring	activities developed for the NCR are being	 			
			credited under the MR as goals and monitoring.			1	1
			The current plan is scheduled until 1/1/00.	L	l	l	
1/2	52	PC1	The SPDS systems have a design availability	A0416359	2/7/97	9/30/97	Open
ſ			commitment of 99%. The MR history review could				
1	SPDS	Availability	not validate this performance and the systems				
1	1]	were placed in (a)(1). Replacement equipment	1			
		ł	has been installed and the new system will be	1			1
1			monitored for this 99% availability until 9/30/97			1	I

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Unit	SSC	PC	Goals and Monitoring	Action	Date In	Date	Status
	,	Exceeded		Request		Out	
1/2	20	PL3	Problems identified during performance of STP	A0416829	2/7/97	Open	Open
[M-21C, and "O"-ring failures resulted in loss of				
	Turbine	Capacity	plant capacity. The Unit 1 and 2 EH fluid systems			l	
1	EH	Factor	were placed in (a)(1) indefinitely, pending		-	1	
ł	Control	Loss	resolution of design issues with the vendor. Goals			1	•
· ·	l Oil		monitored will be no capacity loss due to STP M-			ļ	
			21C failures nor failed "O"-rings.				
1 1	23	PC2	MPFF's occurred twice in 24 months on the S-2	A0417756	2/7/97	6/30/98	Open
· ·			fan discharge damper because of binding. Goals		1	1]
	FHB	Repeat	for improved performance are no failures of the S-	l.		^	[
1	HVAC	MPFF's	2 nor S-1 discharge dampers, related to bearing			1	
			problems, until 6/30/98.				
1/2	63	PC2	I he B2 undervoltage relays for both units have a	A0418008	2/7/97	3/1/98	Open
ł		MDEEL	nistory of being found outside Tech Spec. limits				
		MPFF'S	auring testing. The monitoring period is until	1			1
1			3/1/98 and the goals are no 15 violations of as				1
10			The OFOLL FOF times for both units have a	40400402	0/7/07	0/20/07	0.000
112	23	P02	history of being found outside Tech. Spee limite	A0420123	2//19/	9/30/97	Open
1	CECUIA	MDEE's	during testing. The menitering period is until	1	1		ł
		IVIEFES	Q(30)Q7 and the goals are no TS violations of as	4		{	1
1			found setpoints			1	1
2	8	PC2	The Unit 2 PDP has a history of premature value	A0421411	A/17/07	Open	Onen
	J	102	wear and failure that has resulted in numn				
1	PDP	MPFF'e	Linoperability and increased maintenance. The		1		
1	. 5.		monitoring period is open pending cause			1.	
1.	1		evaluation by TES. Six month valve replacement		~	1	
1	1	1	to continue until cause is determined.				

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Unit	SSC	PC	Goals and Monitoring	Action	Date In	Date	Status
		Exceeded		Request		Out	
1/2	17	PC2	The Unit 1 and 2 ASW pumps had recurring	A0425240	4/17/97	12/1/98	Open
			inoperability based on STP failures. Cause was				
	ASW	MPFF's	excessive packing leakage. Corrective action to				
	Pumps		change packing design and eliminate injection.				
			Goal is not exceeding the packing leakage limit of				
			4 gpm described in the STP and checked by				
1/2	03	PC2	The Unit 1 and 2 MEW numps have a history of	A0425255	A/17/97	12/1/98	Open
172		1 02	control oil problems which resulted in a recent trip	7.0720200	, ,		
	MFW	MPFF's	of Unit 2. Goals established to monitor NCR	Ŧ			
	Pumps		N0002023 corrective actions are: no capacity	*			
			loss, either planned or unplanned, trip header				
•			pressure greater than 100 psi, and control oil				
			sample results within ISO specifications				
1/2	10	PC2	The Unit 1 and 2 RHR pump discharge flow	A0426788	4/17/97	Open	Open
		}	controllers were identified by the SE as having a				
1	FIC-		history of being found out of calibration. Based on		[
	641A/B	MPFF's	this the SE requested goal setting. Investigation is				
		j	in progress to determine the cause and corrective		Į		
		1	action.				ł
1	8	PC2	The Unit 1 positive displacement charging pump	A0433241	6/24/97	4/1/98	Open
			was identified as having two failures to start within				
	PDP1	MPFF's	the last 24 months. These failures were attributed				ł
			to the fluid drive. At the request of the SE, this	Į			
			SSC was placed in (a)(1). The corrective action is	ļ			
		ľ	replacement of the drive and the goal is no				
1	1		failures to start due to fluid drive problems				

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Unit	SSC	PC	Goals and Monitoring	Action	Date In .	Date	Status
		Exceeded		Request		Out	
1/2	64	PC2	The Unit 1 and 2 Pressurizer heater backup vital	A0437390	6/24/97	7/1/98	Open
		<u>^</u>	power supply breakers have failed twice within		i		
	Vital	MPFF's	the last 24 months. The SE identified the cause				
	Breakers		as improper adjustment of the close latch release				
			rod. At the SE request all four breakers were				
			placed in (a)(1) with a corrective action of revising				
	_		the maintenance program for these SSC's. The				1
l '			goal is no failures to close from the Control Room.				
1/2	98	PC2	The Unit 1 and 2 Fire Barrier Penetration seals	A0434296	6/24/97	9/1/99	Open
			were identified as having a history of poor]		
1	Fire	MPFF's	performance. Ref. NCR N0001789. They have			{	
1	Barrier		been placed goal setting until 18 months after the	1	}	}	
	Pen.		NCR corrective actions of seal refurbishment is		l]	ļ
	Seals	[complete. The goal is a successful seal	i.	ł		
	Į	1	evaluation as documented under the STP	}		1	
1	}		program	ļ	ļ		

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ENGINEERING SUPPORT PERSONNEL TRAINING

Monthly Health Report

June 1997

Distribution:

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Senior Vice President	Greg Rueger	с — — — — — — — — — — — — — — — — — — —	
Vice President-Nuclear Technical Services Vice President & Plant Manager Manager - Engineering Services	L.F. Womack Bob Powers Dave Miklush	Contents	
Manager - Nuc. Safety Asmt & Licensing Manager - Design Engineering Services Manager - Operations Services Manager - Maintenance Services Manager - Nuclear Quality Services Manager - Outage Services Learning Services Director Directors and Supervisors: Engineering Services Regulatory & Design Services Operations Services Maintenance Services	Mike Angus Dave Tateosian Jim Molden Dave Oatley Bill Crockett Steve Fridley Bill Vatter	Executive Summary Program Implementation: Orientation Training Continuing Training Qualification Guidelines Management Observations	2 5 6 7 8
Maintenance Services	- W. C. A. We interest pro-		
Outage Services	¶ ₩ 14.48 - 50 4 4-500 4-5	• -	
Operations and Engineering Instructors	nan maya ya a da da ya manaka mamak		v
Engineering Steering Committee			
Submitted By: <u>Tim</u> . ENGINEERIN	Blake G TRAINING LEADER J.M. Blake	Date: <u>7/11/97</u>	
Approved By: <u>D. M</u> MANAGER-ER	iklush NGINEERING SERVICES .B. Miklush	Date: <u>7/18/97</u>	

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EXECUTIVE SUMMARY

Program Summaries

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Orientation Training	ESP Orientation Course E97-1 started on June 2nd with 15 attendees for Fundamentals and 19 students for Systems, 4 of which are auditing the systems phase only. Orientation Training details are provided on page 5 of this report.					
Continuing Training	For TU97-1 the training. The self-study and individuals have	For TU97-1 there were eight individuals who did not attend the required training. These individuals are required to makeup the training through self-study and subsequently pass the required written test. To date, seven individuals have successfully completed their makeup requirements.				
Qualification guidelines	In June, 350 of Specific Train Knowledge sig were complete of this report.	In June, 350 engineers were reported to be participating in Position- Specific Training. The target was to have 100% of them complete their Knowledge sign-offs by April 30,1997. 98.9% of the Knowledge sign-offs were completed. Qualification Guideline requirements are given on page 7 of this report.				
Management Observations	The table below documents the management observations conducted in June.					
	Class	Number scheduled	Number conducted			
v	E97-1	8	8			
	The results of these observations have been distributed to the ESP Steering Committee for review and comment. The details of these observations are given in the table on page 9 of this report.					

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Program Summaries, Continued

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Discipline One hour of vendor supplied L.B.I.E training was presented to 25 Specific This training was provided by the supervisors to their respective g					
TIP status	The TIP actions assigned to Engineering Training are tracked as a part of Operations and Engineering Training and the overall status is as follows:				
	May '97				
	Open (as of 6/1/97)	New	Closed	Overdue (as of 6/1/97)	
	1035	116	103	235	

June '97

Open (as of 7/1/97)	New	Closed	Overdue (as of 7/1/97)
1043	99 - • • • • • •	91	192

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PROGRAM IMPLEMENTATION

Overview

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Attendance

Attendance for in-progress programs is shown below.

MONTH AT-A-GLANCE

ESP Training Attendance Statistics June, 1997						
Classes / Date		# Students Attending Training	# Unexcused Absences From Scheduled Training	# Late to Class or Left Early	# Late Returns From Break	# Test Failures
E97-1 Fundamentals	6/2 - 6/6	15	0	1	0	4
-	6/9 - 6/13	15	0	1	0	4
	6/16 - 6/18	15	0	. 2	0	4
E97-1 Systems	6/19 - 6/20	19	0	1	0	N/A
	6/23 - 6/27	19	1	1	0	2
TOTALS			1	6	0	14*

NOTE: 1 individual has been dropped from the course and 1 individual has elected to audit the course.

The ESP Steering Committee did not meet in June.

Steering Committee

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Orientation Training

Orientation schedule

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The Orientation Training schedule for 1997 is shown below:

Class	Date(s)	Comments
E97-1	June 2, 1997-Aug. 15, 1997	Location: DCPP
		Current sign-ups: 15 students plus 4 additional auditing the systems phase only.

Training conducted

Orientation Training conducted in June is shown below:

Class	Date(s)	Audience	Comments
Class E97-1	6/2 - 6/30	ESP Orientation Class E97-1 Fundamentals weeks 1-3 and Systems weeks 1-2	14 students plus 5 additional auditing the systems phase only.
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NOTE: The goal of 100% attendance was not achieved for the TU97-1 required training. Eight individuals will receive this training through routing.



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Qualification Guidelines

Completion statistics

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The statistics for qualification guide knowledges that were to be completed by April 30th are shown below:

Qualification Guideline Completion Statistics June, 1997			
Number of Engineers	"Knowledges" % Complete		
350 Engineers	99.97%		

Statistics by section

The Engineering Sections that did not achieve the goal of 100% knowledge item completion by April 30th are shown below with their current status:

Section	Number of Engineers	"Knowledges" % Complete
DCPP-Mech Maint		99%
NTS-Elec./I&C	51	100%
NTS-NSSS	30	100%

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Management Observations

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Overview	 Management observations are processed as follows: Training Leader and Instructor review the observation. Immediate corrective actions required are implemented. Training Leader provides response to the observer. Comments are recorded in the feedback database. Instructor performance issues are discussed with appropriate Training Leader. Comments are reviewed by the ESP Steering Committee.
Schedule	• A formal management observation schedule has been established for all ESP Orientation Training sessions scheduled in 1997. It is maintained by the Secondary Systems Director and Engineering Steering Committee Chairman, Chris Groff. This schedule is posted on EDMS: NPG Library Learning Services
	Training Schedules & Notices 03 Engineering
	• All Managers and Directors attending Continuing Training are requested to complete a management observation

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Management Observations, Continued

Orientation Training

June Management Observations of Orientation Training for E97-1:

Evaluator (Date)	Class No.	Strengths	Areas For Improvement.
J. Bard (6/2/97)	ECH7	Very good instruction technique - involved the students - tied in polisher operation.	Lots of material for a short time - never got back to primary demins, deborating demins as promised at beginning of lecture.
C. Groff (6/4/97)	EESST EES3	Good subject knowledge. Handled questions well. Methodical use of diagrams and drawings.	Granted - these are pretty dry topics. Drawing the students into the lecture would help keep people aware - work to include in industry experience.
J. Shoulders (6/10/97)	ETH10	Basic fluid mechanics discussion was aided by a very clean discussion of learning objectives followed by a discussion which referred back to the objectives occasionally.	None noted.
M. Burgess (6/13/97)	NP13T	Knows material well. Articulated. Able to explain neutron life cucle in terms as close to "everyday life" as possible, i.e., layman could understand. Uses examples well. Involves/engages class, excellent class participation - encourages participation.	Needed to defer answer to question regarding capture of neutron by Uranium nucleus w/o subsequent fission.
T. Fetterman (6/16/97)	ENP15 ENP16 ENP17	Instructor knew the technical material well. Overheads were supplemented by markups for clarification. Instructor recovered nicely when text mistakes were pointed out w/o creating confusion.	Some of the training material handouts were not entirely accurate i.e., both chapter 15 and 16 required corrections by the students (U-238 to 235, PU-241 to 259), chapter 17, $1=1$ not different as indicated in text. (This was corrected in class)
D. Shelly (6/19/97)	EM2	Bill has excellent knowledge of I&C material and is able to convey this knowledge in an understandable language. Good use of white.	Involvement by students was initially slow but picked up at end of training class. It's hard to get involvement with a group as diverse as ESP training.

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Management Observations, Continued

Orientation Training (continued)

Evaluator (Date)	Class No.	Strengths	Areas For Improvement
D. Miklush (6/24/97)	EC8a	Good clear delivery of info. Asked class questions (subject dry) to keep them involved.	None noted.
L. Cossette	EBla	Very thorough and concise. Did not go beyond what was needed.	None noted.

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TECHNICAL MAINTENANCE TRAINING MONTHLY HEALTH REPORT

June 1997

Distribution:

SR VP	Greg Rueger	77B 1451
VP-NTS	L.F. Womack	333 8024
VP & PM	Bob Powers	104/5/502
Maintenance Services Manager	Dave Oatley	104/5/504 ·
Engineering Services Manager	Dave Miklush	104/5/503
Operation Services Manager	Jim Molden	104/5/505
Nuclear Quality Services Manager	Bill Crockett	104/5/507
Outage Services Manager	Steve Fridley	104/5/508
Design Engineering Manager	D. Tateosian	77B 1451
Nuclear Safety & Licensing Manager	Jim Tomkins	333 A1411
NPG Transition Manager	Rod Curb	104/5/506
Site Services Manager	Jeff Hays .	104/5/501
Learning Services Director	Bill Vatter	119/2/247
Asst VP NTS	Jan Grammer	333 A8026
NQS Maintenance	Bob Whittsel	104/3/33A
TM Director	Tim King	104/5/521
TM SR Engineer	Mike Nowlen	102/2
Technical Maintenance GFs:	Jeff Bonkosky	102/2
TM Training Coordinator	Ray Alpago	102/2
Electrical Training Leader	Sam Stewart	119/2/247
I&C Training Leader	Scott Roberts	119/2/247
TM Specialist	Steve Pascal	104/5/41
•	Travis Noblett	119/2/247
Technical Maintenance Foremen (102/1)	Clay Beck	Bob Mayberry
	Gary Carter	Jeff McAlister
· · · · ·	Mark Frauenheim	Terry Shelburne
	Neil Glines	Pat Stricker
۹.	Frank LaCross	Randy Howard
Technical Maintenance Steering	Manual Romero	Gene Kilmer
Committee Craft (102/1)	Mark Taylor	Bob Tyler
	Wayne Rowe	Armando Cinco

Submitted: <u>Sam Stewart 7/10/97</u> TM (EM) TRAINING LEADER

Scott Roberts 7/10/97 TM (L&C) TRAINING LEADER

Approved

Tim King 7/10/97 TM DIRECTOR

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EXECUTIVE SUMMARY

	June C	lass Att	tendance				
	Complete Date	TM Techs	TM Foreme n	Other*	No- shows**	Late/left early**	Test Failures
Molded Case Circuit Breakers/ Protection Fundamentals	6/12/97	5	0	0	2	0	0 / 12
Motor Controls	6/20/97	9	0	0	2	3	0/8
Switchgear Maintenance	6/20/97	5	0	0	2	1	-0/4
TOTALS		19	0	0	6	4	0 / 24

* instructors, planners, outage support, QC, etc. **TM section personnel only in these statistics

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Training Improvement Pro	posals	Training-Related Goals		
Stat	June Results *	Goal	June Results	Goal Met?
TIP Actions Created	4	Initial Training Attendance >95%	92.5%	NO
TIP Actions Completed	7	Continuing Training Attendance >95%	N/A	N/A
Total Open TIP Actions	193	Testing Pass Rate >95%	100%	YES
Overdue TIP Actions	24	Mgmt Observations of TM training:	June Results	QTR total
* Overdue as of 6/27/97.(Last work day of the month)		 ≥ 1 in each setting (Classroom, Lab, OJT) each quarter. 	0 Lab 3 Classroom 1 OJT/TPE	0 Lab 6 Classroom 4 OJT/TPE
		Totals	4	10
		• \geq 15 total each quarter.		NO

Qualification Statistics PG&E		Benchmarking Activities		
Area	Complete in June	Activity	# in last 12 months	Months since last
Basic Electrical quals	3	Peer Eval	2	0
Adv. / Specialized Electrical quals	2	WesTrain Meeting	3	1
Basic I&C quals	0	Other Benchmarking	3	1
Adv. / Specialized I&C quals	0			
Individual task quals	1	•		
TOTAL	6			

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PROGRAM IMPLEMENTATION

I&C Initial Training

I&C Initial Training in June.

Class ·	Complete Date	Audience	Comments (See attached TIP N/A for student comments)
None			

· I&C Initial Training scheduled to start this coming month:

Class	Target Audience	Comments
Basic Sciences	Various	

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Electrical **Initial Training**

Electrical Initial Training in June.

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Class	Complete Date	Audience	Comments (See attached TIP 9282 student comments)
Molded Case Circuit Breakers/ Protection Fundamentals	. 6/12/97	ACT	6/10/97 1 No Show 6/11/97 1 No Show (Same as 6/10/97) Removed from Roster
Motor Controls	6/20/97	CT/SCT	6/10/97 2 No Shows(1 called in sick)
Switchgear Maintenance	6/20/97	ACT	6/17/97 1 No Show 6/17/97 1 Late 1 1/2 hours, didn't change shift to proper 4/10 start time. 6/18/97 1 No Show (Same as 6/17/97) Removed from Roster

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* PRGGRAM IMPLEMENTATION, Continued

Electrical Initial Training scheduled to start this coming month:

Class.	Audience	Comments
Basic Meters	various	
Motor Controls	various	

TM Continuing TM Continuing Training in June.

Class	Complete Date	Audience	(See attached TIP N/A for student comments)
None			

TM Continuing Training scheduled this coming month:

Class	Audience	Comments
2nd Session Core	various	Dry Run

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© PROGRAM CONTINUOUS IMPROVEMENT

Steering Committee	• The Steering Committee met on 6/13/97, minutes are on EDMS.	
TM Program Upgrade Project	• See the attached Microsoft Project document for details.	
Benchmarking Activities	• Assisted in self evaluations for Commanche Peak and Wolf Creek.	<u> </u>
Remediation	• 1 journeymen still needs to remediate in Controllers and is preparing to take a challenge test. This will complete remediation in Controllers.	
	• Basic Sciences remediation is scheduled to start at the end of July.	<i>.</i>
Training Materials	 JTA / Vision Upgraded I&C and Electrical databases to Vision NT platform. Graphics within Vision test generator still need to be upgraded now that data conversion to Vision NT is completed. There are many problems with the new Vision and solutions are being sought. 	
	Lesson Materials	
	Development work to support the 1997 training schedule is ongoing.	
Lab / Facilities .	• Electrical Lab - This appears to be a stalled issue, Help is needed.	
	 There have been numerous student feedback and Management Observation of Training items surrounding the need for support from the shop on maintaining training labs/equipment. 	
Management and Student Feedback	• See attached TIPs 9281 and 9282 for details	

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TMQUALIFICATIONS

General Need to build a consensus on where Q status will be documented longterm. (PIMS vs. Excel Spreadsheet). See Training Program Upgrade Project Status. Need to build a consensus on where training database will reside long-• term. (PIMS vs. MS Access or other DB). See Training Program Upgrade Project Status. **TM** Quals Task to Qual Matrix is at the line. This document needs approval to • complete the training program upgrade project. All Task Quals and Advanced Quals are being reformatted and reconciled • with the new task to qual matrix in conjunction with the training program upgrade project. • Individual Task Qualifications to be uploaded into EDMS. Awaiting verification by Foreman of correct revision of ITQ's prior to upload.

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MECHANICAL MAINTENANCE TRAINING MONTHLY HEALTH REPORT

June 1997.

Distribution:

SR VP "	Greg Rueger	245 MKT N9B
VP-NTS	L.F. Womack	245 MKT N9B
VP & PM	Bob Powers	104/5
Maintenance Services Manager	Dave Oatley	104/5
Engineering Services Manager	Dave Miklush	104/5
Operation Services Manager	Jim Molden	104/5
Nuclear Quality Services Manager	Bill Crockett	104/5
Outage Services Manager	Steve Fridley	109/2
Design Engineering Manager	D. Tateosian	245 MKT N9B
Nuclear Safety & Licensing Manager	Jim Tomkins	245 MKT N9B
Learning Services Director	Bill Vatter	119/2
MM Training Coordinator	Allen Gryczewski	102/2
Mechanical Maintenance G.F.s:	Ken Palmer	116/1
	Warren Jacks	116/1
	Eric Nelson	116/1
Mechanical Maintenance Foremen (116/1)	Brodnick	Watkins
	Jordan	LeBlanc
	Prange	Strahl
e ister ersten beset	Lavelle	Salazar
x x	Buckley	Glines
Mechanical Maintenance Steering Committee	R. Miller	D. Sanders
Craft (116/1)	V. Lipari	S. Stephen
and a second second second second second second second second second second second second second second second	C. Raymond	R Ward

Submitted:

7/7/97 R/DATE

7.7.97 MM DIRECTOR / DATE

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Attendance & Management Observations



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Program Co	ntinuous Improvement, Continued	
Lab / Facilities	• N/A.	
Management and Student Feedback	 Summarized in class report and stored in: s:\lrn\pame\admin\reports\reports\class\1997 	
General	 Looking at streamlining documentation of training records (One input into a single databases should yield all necessary reports/qual matrix's for the line). Weekly status meetings to assess work in progress and plan for instructor development. 	
MM Qual's	• N/A .	
Outage TA Qual's	 Qualification needs of the shop were met. Use of the Union Hall to perform TPE's seems to have been a success (We received excellent support from the line with regard to TPE evaluators). 	

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Program Implementation, Continued

Completed JPM's

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COMPLETED JPM's	
Course	Numbers of JPM's
Rigging	1 1
Fuel Handling Crane	1
Total	2

Remediation Training

REMEDIATION TRAINING			
	Course	Number of Students	
None		N/A	

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