UNITED STATES NUCLEAR REGULATORY COMMISSION REGION IV JUL 2 | 1994 MEETING SUMMARY Licensees: Facility: 50-498/499 Dockets: SUBJECT: ENGINEERING PROGRAM MEETING

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

Houston Lighting & Power Company

South Texas Project, Units 1 and 2

This refers to the meeting conducted at your request in the Region IV office on July 7, 1994. This meeting related to discussion of your engineering programs accomplishments and initiatives.

The meeting was attended by those listed in Attachment 1. The attendance list and the presentation handouts are provided in Attachments 1, 2A, and 2B, respectfully. The meeting was considered beneficial and provided for an open discussion on the status of your engineering programs.

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

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

Sincerely.

Thomas P. Gwynn, Director Division of Reactor Safety

Attachments:

1. Attendance List

Licensee Presentations

cc w/o Attachments:

Houston Lighting & Power Company

ATTN: James J. Sheppard, General Manager

Nuclear Licensing

P.O. Box 289

Wadsworth, Texas 77483

City of Austin Electric Utility Department ATTN: J. C. Lanier/M. B. Lee 721 Barton Springs Road Austin, Texas 78704

9407260056 940721 PDR ADOCK 05000498

City Public Service Board ATTN: K. J. Fiedler/M. T. Hardt P.O. Box 1771 San Antonio, Texas 78296

Newman & Holtzinger, P. C. ATTN: Jack R. Newman, Esq. 1615 L Street, NW Washington, D.C. 20036

Central Power and Light Company ATTN: G. E. Vaughn/T. M. Puckett P.O. Box 2121 Corpus Christi, Texas 78403

INPO Records Center 700 Galleria Parkway Atlanta, Georgia 30339-5957

Mr. Joseph M. Hendrie 50 Bellport Lane Bellport, New York 11713

Bureau of Radiation Control State of Texas 1100 West 49th Street Austin, Texas 78756

Office of the Governor
ATTN: Susan Rieff, Director
Environmental Policy
P.O. Box 12428
Austin, Texas 78711

Judge, Matagorda County Matagorda County Courthouse 1700 Seventh Street Bay City, Texas 77414

Licensing Representative Houston Lighting & Power Company Suite 610 Three Metro Center Bethesda, Maryland 20814 Houston Lighting & Power Company ATTN: Rufus S. Scott, Associate General Counsel P.O. Box 61867 Houston, Texas 77208

Egan & Associates, P.C. ATTN: Joseph R. Egan, Esq. 2300 N Street, N.W. Washington, D.C. 20037

ATTACHMENT 1

ATTENDANCE LIST

1 HOUSTON LIGHTING & POWER COMPANY

- T. H. Cloninger, Vice President, Nuclear Engineering
- M. Forsyth, System/Computer Analysis Supervisor, Systems Engineering
- R. Harris, Supervising Engineer, Section XI, Engineering Program
- S. M. Head, Supervisor, Licensing T. J. Jordan, Manager, Systems Engineering M. D. Meier, Manager, Engineering Programs
- D. C. Sicking, Supervising Engineer, Systems Engineering
- S. Thomas, Manager, Design Engineering Department

2 CITY OF AUSTIN

- R. X. Del Gado, Fuels Planner
- C. Garza, Project Coordination

3 OFFICE COUNSEL

M. Moehlmann

NUCLEAR REGULATORY COMMISSION

- L. J. Callan, Regional Administrator
- T. P. Gwynn, Director, Division of Reactor Safety T. F. Westerman, Chief, Engineering Branch, Division of Reactor Safety
- D. A. Powers, Chief, Maintenance Branch, Division of Reactor Safety
- W. D. Johnson, Chief, Reactor Project Branch A, Division of Reactor Projects
- L. E. Ellershaw, Reactor Inspector, Maintenance Branch, Division of Reactor Safety

bcc w/Attachments:

DMB (IE 45)

J. L. Milhoan, DEDR (MS 17G21)
H. L. Thompson, DEDS (MS 17G21)
W. T. Russell, D/NRR (MS 12D1)
A. C. Thadani, ADT/NRR (MS 12G18)

L. A. Reyes, ADP/NRR (MS 12D9)

J. Lieberman, D/OZ (MS 7H5)

L. J. Chandler, OGC (MS 15B18) NRR Project Managers: T. Alexion (MS 13H3)

OEDO RIV Coordinator (MS 17G21)

L. J. Callan, RA J. M. Montgomery, DRA

G. F. Sanborn, EO

C. A. Hackney, RSLO J. Gilliland, PAO, RIV T. P. Gwynn, D/DRS

T. F. Westerman M. F. Runyan

C. J. Paulk

RA Secretary

DRA Secretary

Carol Gordon

Division Secretary

L. S. Ousley

RIV:C:MB*	C:MB*	C:PBA 9	ADD: DRS	D:DRS	
TFWesterman/1b	DAPowers	WJohnson	JLPellet	4 TPGwynn	
7/13/94 07/20/94		07/20/94	07/21/94	07/21/94	

bcc w/Attachments:

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07/13/94	07/22/94	07/20/94	07/21/94	07/21/94		

^{*}Previously concurred

SOUTH TEXAS PROJECT

Nuclear Engineering Overview Arlington, Texas

July 7, 1994



VISION: STP--A WORLD-CLASS POWER PRODUCER

SOUTH TEXAS PROJECT

NUCLEAR ENGINEERING OVERVIEW AGENDA

MAJOR	EQUIPMENT ISSUES	
*	EQUIPMENT IMPROVEMENTS ACHIEVED	TOM JORDAN
*	EQUIPMENT INITIATIVES	TOM JORDAN
PROGR	AMMATIC INITIATIVES	
*	MODIFICATION PROGRAM	STEVE THOMAS
*	ENGINEERING WORK MANAGEMENT	STEVE THOMAS
*	SYSTEM PERFORMANCE MONITORING	MARK FORSYTH
*	LUBRICATION PROGRAM	
*	MOV PROGRAM	
*	INSERVICE TEST PROGRAM	MIKE MEIER

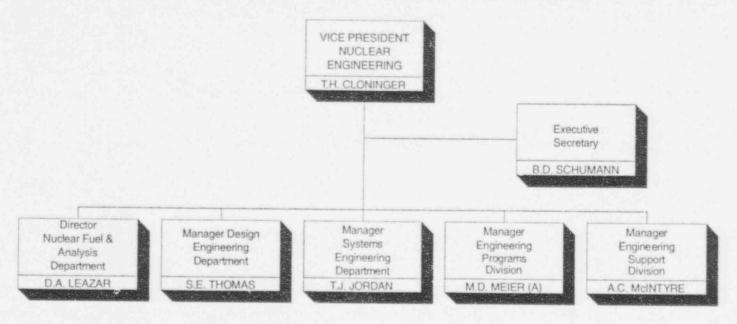
SOUTH TEXAS PROJECT ENGINEERING PHILOSOPHY

- * ENGINEERING SUPPORT WILL BE CUSTOMER DRIVEN
- * TECHNICAL COMPETENCE WILL BE FOUNDED ON AN OPERATIONAL FOCUS
- * PROBLEM RESOLUTION WILL BE AGGRESSIVELY PURSUED WITH THE BEST EXPERTISE AVAILABLE
- * RESOURCES, TOOLS, AND TRAINING WILL BE PROVIDED TO ACHIEVE WORLD CLASS STATURE

SOUTH TEXAS PROJECT ENGINEERING ACCOMPLISHMENTS

- * ENGINEERING ORGANIZATION REALIGNED BY FUNCTIONAL RESPONSIBILITIES FOR MORE EFFICIENT OPERATION
- * NEW ENGINEERING WORK MANAGEMENT SYSTEM TO IMPROVE TRACKING AND MANAGEMENT OF ENGINEERING WORKLOAD
- * SYSTEM ENGINEERING GUIDELINES AND DIVISION OF RESPONSIBILITIES ESTABLISHED
- * MANAGEMENT SRO CERTIFICATION TRAINING
- * SELF ASSESSMENT CULTURE ESTABLISHED

SOUTH TEXAS PROJECT **NUCLEAR ENGINEERING**



- Mgt Comm Fuel Staff
- * Fab Cont
- Rx Engr TH Anal
- * PRA
- * Decomm

- Disciplines
- Procurement Engineering
- * VETIP
- * MOD Admin.
- Fluid Systems
- Elect/1&C Systems
- Technical Support
- Computers
- Reliability Statistics PM Pgm
 - Pred Maint RCM
 - Thermal Performance

- Testing Section XI Surveillance
 - Leak Rate Rx/Plt Perf CV/Snubber
- /HVAC Fuel Insp
- Fire Prot Welding
- Codes & Stds
- Procedures MOV Program
- · Gertath

- Reporting
- Business Plan
- Tracking/Trending
- Doc Processing Budget
- DataBases
- Training Word Proc
- Nuc Net MED/MPL
- * CM Program
- Process Proced. Work Management

SOUTH TEXAS PROJECT NUCLEAR ENGINEERING

VICE PRESIDENT NUCLEAR ENGINEERING TH. CLONINGER

Manager Design Engineering Department S.E. THOMAS

MANAGER MECHANICAL/CIVIL DIVISION M.E. KANAVOS

MANAGEMENT SHO TRAINING C.H. PHAM

CIVIL/STRUCT SUPERVISOR R.M. ATTAR

NSSS/SPECIAL PROJECTS SUPERVI. M.S. OSWALD

MECHAN, SUPPORT SUPERVISOR J.A. BURACK

MECHAN, MODS/PSSG SUPERVISOR S.O. PATEL

MANAGER DESIGN SUPPORT

CADDIGEO TECH SUPERMISOR P.D. NEWCOMB

MOD PROGRAM SUPERVISOR J.R. BEERS

COORDINATOR VETIP S. CLARK (A)

PROCUBENENT ENGINEERING SUPERMISOR T.F. WALKER (A)

SCHEDULING SUPERMISOR W.J. BRULE

MANAGER ELECTRICAL/ISC DIVISION R.F. CAPROLL

> CONFIG MGT ISSUES PROJ MGR M.P. MURRAY

ELECTRICAL DESIGN/PROJECT SUPERVISOR J.P. CARBONE

ELECTIF ON STREETISOR

INC EQUIPMENT QUALIFICATION PROGRAMS SUPERVISOR T.H. CRAWFORD

ISC SUPERVISOR W.G. WELLBORN Manager Systems Engineering Department T.L.JORDAN

MANAGEMENT SHO TRAINING

MANAGER MECHANICALFLUIDS SYSTEMS DIVISION A.P. KENT

MANAGEMENT SHO TRAINING S.K. DUBLY

NSSS SUPERVISOR J.B. COOK

SECONDARY SUPPORT SUPERVISOR T.M. MOMSEN

POWER PRODUCTION SUPERMISOR B.O. BROWN

DITTELS SUPERMISOR FISHER 2.A. BIXIR

PLANT SUPPORT SYSTEMS SUPERVISOR J.B. COTTAM

MANAGER FELIABILITY ENG. DIVISION

PLANT PERFORMANCE SUPERVISOR D.C. SICKING

SYSTEM COMPONENT ANALYSIS SUPERVISOR IMI. FORSYTH

PREVENTIVE MAINTENANCE SUPERMISOR S.E. HILL

MANAGER ELECTRICAL/IBC SYSTEMS DIVISION D. REMCGREE

IAC SUPERVISOR P.B. TRAVIS

COMPUTER SUPERVISOR

P. W. SMETH

BADIATION MONITORS SECURITY SUPERVISOR C.S. BEWERE

ELECTRICAL SUPERVISOR R.T. MOORE

MANAGER TECHNICAL SUPPORT ENGINEERING DIV D.R. STARK

MECHANICAL SUPERMISOR T.E. HALL

ELECTRICAL/INC SUPERVISOR LR CASELLA

Manager Programs Division

M.D. MEIER (A)

VALVE SUPERVISOR A. ALDRIDGE

SECTION ALSUPERMSOF W.R. HARRIS B. TRAN

PERFORMANCE TECHNICIANS SUPERVISOR G P ERSKINE

TECHNICAL PROCEDURES SUPERMISOR D.M. CHAMBERLAIN

EROSION/CORBOSION/ISI SUPERVISOR S. TIMMARAJU

Manager Engineering Support Division

A.C. MOINTYRE

CONFIG. CONTROL/TRAINING SUPV. J. HUTSEBAUT

ENGINEERING ADMIN. SUPV. R.E. OWEN

INFORMATION MANAGEMENT SUPV. K.R. COPE

Director Nuclear Fuel R Analysis Department D.A. LEAZAR

MANAGEMENT SHO TRAINING C.R. GHANTOM D.F. HORPES

NUCLEAR FUEL SUPERVISOR G.C. MARKEN (A)

REACTOR ENGINEERING SUPERVISOR ELL HER

RELOAD ENGINEERING SUPERVISOR D.E. GOPE

THERMAL HYDRAULICS SUPERMISOR C.R. ALBURY

FISK & RELIABILITY ANALYSIS SUPV R.B. CROSS (A)

STP SHO or STA CERT OF MIGNET SHO TRAINING CUPRENTLY ENPOLLED IN MGMT SPO



O-1026.PRE REV 2 6/94

SOUTH TEXAS PROJECT EQUIPMENT IMPROVEMENTS ACHIEVED

- * STEAM GENERATOR FEED PUMPS/TURBINES
 - * LUBRICATING OIL/SEAL WATER LEAKAGE
 - * HIGH PRESSURE STOP VALVE LEAKAGE
 - * SOLENOIDS/ACTUATORS
- * STARTUP FEED PUMP WATER INGRESS
- * DIESEL GENERATORS
 - * TECHNICAL SUPPORT CENTER DIESEL
 - * STANDBY DIESEL GENERATORS
- * NITROGEN 16 MONITORS
- * AUXILIARY FEED PUMP 14
- * HEATER DRIP SYSTEM LEVEL CONTROLLERS

SOUTH TEXAS PROJECT

EQUIPMENT IMPROVEMENTS ACHIEVED

(CONTINUED)

- * RESIDUAL HEAT REMOVAL SYSTEM COOLDOWN METHODOLOGY
- * UNIT 1 REACTOR VESSEL O-RING
- * ESSENTIAL CHILLER BYPASS
- * CONDENSATE POLISHERS
- * SECONDARY PLANT LEAKAGE
- * GLAND STEAM SYSTEM
- * RADIATION MONITORS

SOUTH TEXAS PROJECT EQUIPMENT INITIATIVES

- * CONTINUE DIESEL GENERATOR RELIABILITY IMPROVEMENTS
- * SECONDARY PLANT COMPONENT RELIABILITY
 - * FEEDWATER BOOSTER PUMPS
 - * MAIN TURBINE AND AUXILIARIES
 - * STEAM GENERATOR FOWER OPERATED RELIEF VALVES
- * INSTRUMENT AIR SYSTEM QUALITY
- * MOTOR MAINTENANCE PLANNING
- * MOLDED CASE CIRCUIT BREAKER MAINTENANCE AND TESTING
- * EQUIPMENT DIAGNOSTICS AND ROOT CAUSE ANALYSIS

SOUTH TEXAS PROJECT MODIFICATION PROGRAM

VISION ELEMENTS

- * DIVISION OF RESPONSIBILITY
- * PROCESS IMPROVEMENT
- * MODIFICATIONS EFFECTIVENESS

SOUTH TEXAS PROJECT

MODIFICATION PROGRAM

(CONTINUED)

DIVISION OF RESPONSIBILITY

- * MAJORITY DESIGNED "IN-HOUSE"
- * DESIGN ENGINEERING IS RESPONSIBLE FOR THE EVALUATION AND DESIGN PHASES
- * OUTAGE SUPPORT IS RESPONSIBLE FOR THE INSTALLATION, TESTING, AND FINAL CLOSURE
- * MODIFICATION TEAM DESIGNATED FOR EACH MODIFICATION

Modificat ing-System E utage-Customer Phase 1 Phase 2 Design & Evaluation Construction/Implementation Design Engineering Outage

SOUTH TEXAS PROJECT MODIFICATION PROGRAM

(CONTINUED)

PROCESS IMPROVEMENT

- * THE DESIGN PROCESS IS ESSENTIALLY THE SAME FOR MAJOR AND MINOR MODIFICATIONS
- * ADMINISTRATIVE BURDEN IS REDUCED FOR MINOR MODIFICATIONS
- * SYSTEMS NOT REQUIRING CONFIGURATION CONTROL ARE REMOVED FROM THE CONFIGURATION CONTROL PROGRAM

SOUTH TEXAS PROJECT MODIFICATION PROGRAM

(CONTINUED)

MODIFICATION EFFECTIVENESS

- * TESTING IS DESIGNED TO VALIDATE DESIGN ASSUMPTIONS, PERFORMANCE AND OPERATIONAL CHARACTERISTICS
- * TESTING IS SPECIFIED IN DESIGN PACKAGE
- * EACH MODIFICATION UNDERGOES A POST-MODIFICATION CRITIQUE
- * TRENDING IS PERFORMED AND RESULTS USED TO IMPROVE PROCESS

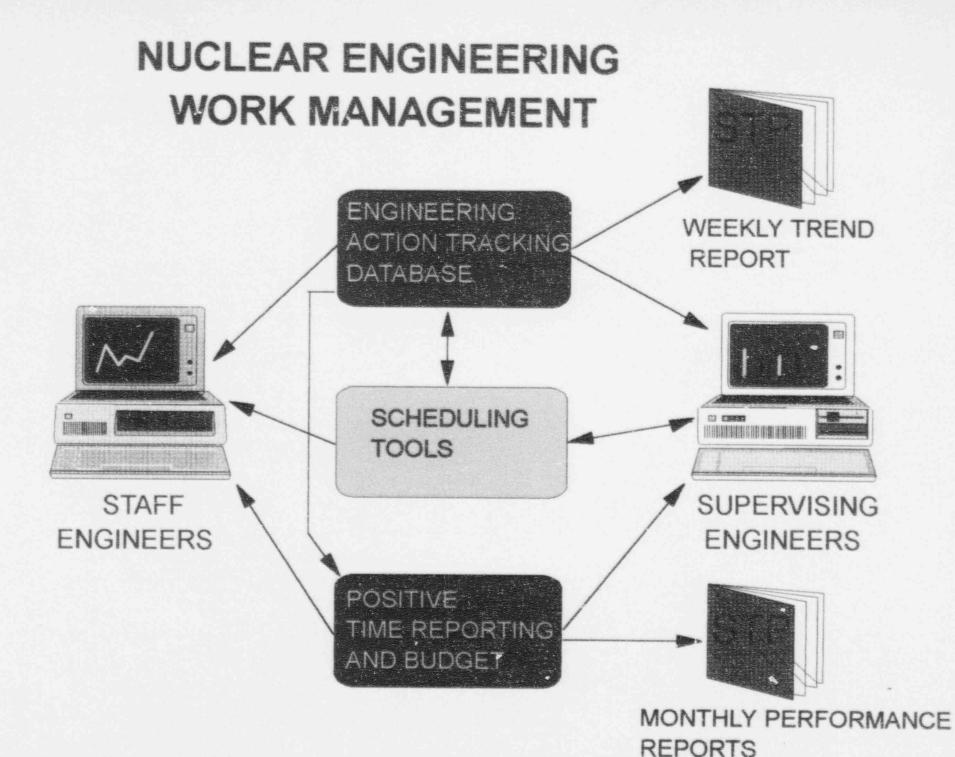
SOUTH TEXAS PROJECT ENGINEERING WORK MANAGEMENT SYSTEM

- * PAST ENGINEERING WORK MANAGEMENT SYSTEM
 - * MULTIPLE NON-INTEGRATED ENGINEERING ACTION TRACKING DATABASES
 - * NO POSITIVE TIME REPORTING
 - * NO ELECTRONIC TIES WITH OTHER SITE DATABASES
 - * NO ELECTRONIC TIES WITH ENGINEERING SCHEDULING TOOLS
 - * NO COMPREHENSIVE PERIODIC TRENDING REPORTS

SOUTH TEXAS PROJECT ENGINEERING WORK MANAGEMENT

(CONTINUED)

- * PRESENT ENGINEERING WORK MANAGEMENT SYSTEM
 - * INTEGRATED ENGINEERING ACTION TRACKING DATABASES
 - * POSITIVE TIME REPORTING ELECTRONICALLY TIED TO ENGINEERING ACTION DATABASE FOR PERFORMANCE MEASUREMENT
 - * AUTOMATIC ELECTRONIC TIES WITH ENGINEERING SCHEDULING TOOLS
 - * PUBLICATION OF WEEKLY TREND REPORT AND MONTHLY BUDGET AND PERFORMANCE REPORT
- * FUTURE ENGINEERING WORK MANAGEMENT SYSTEM
 - * ADD INTERCONNECTIVITY BETWEEN THE ENGINEERING ACTION TRACKING DATABASE AND OTHER SITE ACTIVITY TRACKING DATABASES

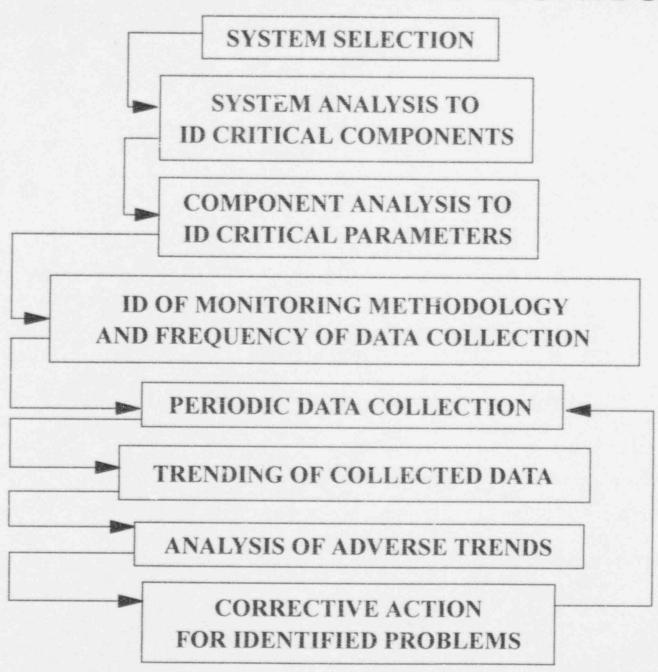


SOUTH TEXAS PROJECT SYSTEM PERFORMANCE MONITORING

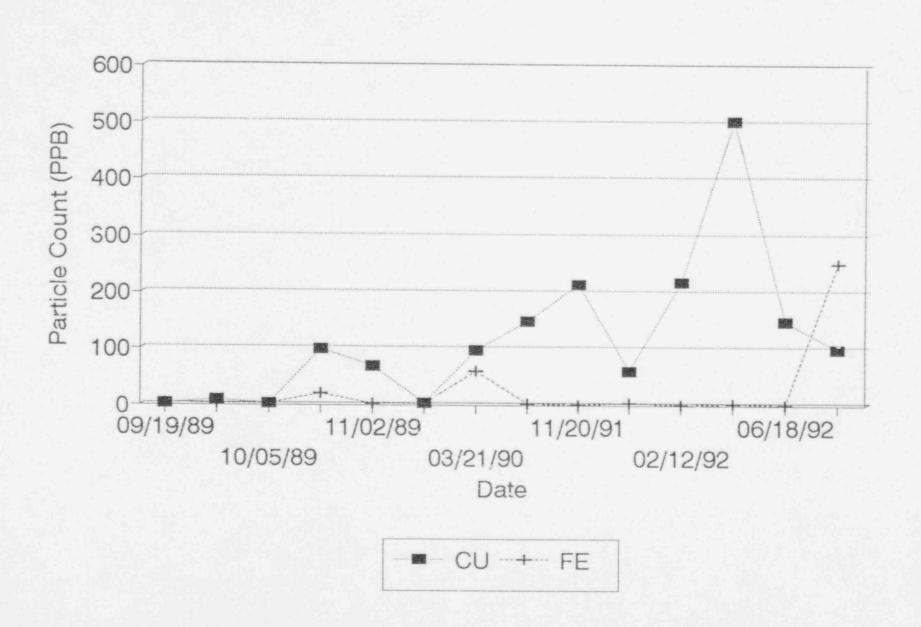
CHALLENGES

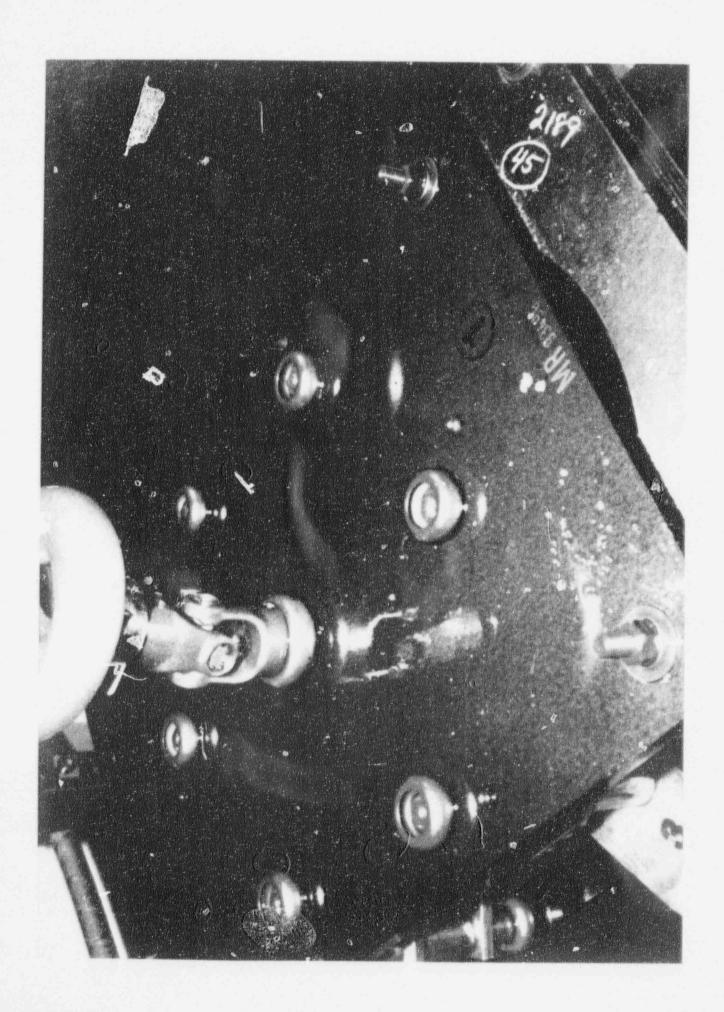
- * IDENTIFICATION OF CRITICAL PLANT PARAMETERS
- * EFFECTIVE COLLECTION AND ANALYSIS OF COMPONENT PERFORMANCE DATA

SOUTH TEXAS PROJECT SYSTEM PERFORMANCE MONITORING



South Texas Project Main Transformer Oil Particle Trend





*

1

SOUTH TEXAS PROJECT LUBRICATION PROGRAM

SELF ASSESSMENT

- * LUBRICATION PROGRAM HAD MULTIPLE/DIVIDED OWNERSHIP
- * NON-DEDICATED LUBRICANTS USED ON SAFETY RELATED COMPONENTS
- * NO READILY ACCESSIBLE DISPENSING POINT FOR GREASES/OILS
- * LUBRICANTS NOT ISSUED IN CONTAINERS SIZED FOR THE JOB
- * LARGE NUMBER OF LUBRICANTS, APPROXIMATELY 200 CLASS BINS, REQUIRE EXCESSIVE WAREHOUSE SPACE

SOUTH TEXAS PROJECT

LUBRICATION PROGRAM

(CONTINUED)

SOLUTIONS

- * SYSTEM ENGINEERING TOOK OWNERSHIP OF LUBRICATION PROGRAM AND HIRED A FULL-TIME LUBRICATION ENGINEER.
- * NEW PROGRAM REQUIRES LUBRICANTS TO BE EITHER DEDICATED OR COMMERCIAL GRADE BUT NOT BOTH
- * DISPENSING STATION CONSTRUCTED IN PROTECTED AREA AND CONTROLLED BY MAINTENANCE TOOL ROOM PERSONNEL
- * OILS ARE NOW ISSUED IN UNIT SIZE REQUIRED FOR JOB
- * 200 CLASS BINS WERE CONSOLIDATED TO 40, REDUCING WAREHOUSE SPACE AND ALLOWING DEDICATED PURCHASE OF LUBRICANTS VIA THE MOBILRAD PROGRAM
- * HARD COPY LUBRICATION SPECIFICATIONS WERE CONVERTED TO THE COMPUTER BASED MASTER PARTS LIST

SOUTH TEXAS PROJECT LUBRICATION PROGRAM

(CONTINUED)

RESULTS

- * NO LUBRICATION STATION PROBLEM REPORTS WRITTEN AFTER THE IMPLEMENTATION PERIOD
- * THE USERS OF THE NEW LUBRICANTS AND DISPENSING STATION GIVE THE PROGRAM GOOD MARKS DUE TO EASY ACCESS AND ISSUANCE OF LUBRICANTS IN QUANTITIES REQUIRED FOR THE JOB
- * NEW PROGRAM MINIMIZES PROBABILITY OF LUBRICANT APPLICATION ERRORS SUCH AS USE OF COMMERCIAL GRADE OILS/GREASES ON SAFETY RELATED COMPONENTS

SOUTH TEXAS PROJECT GL 89-10 MOV PROGRAM

SELF ASSESSMENTS

- * JANUARY, 1994
 - * EVALUATED THE IMPLEMENTATION AND OVERALL EFFECTIVENESS OF THE STP MOV PROGRAM IN ACCORDANCE WITH THE REQUIREMENTS OF GL 89-10.
 - * 17 MEMBERS REPRESENTING 12 ORGANIZATIONS
 - * DEVELOPED PLANS AND SCHEDULES FOR ADDRESSING AND RESOLVING ITEMS
- * MAY, 1994
 - * QUALITY ASSURANCE AUDIT CONFIRMED PROGRAM ADEQUACY
- * JULY, 1994
 - * FULL SCOPE AUDIT IN PROGRESS

SOUTH TEXAS PROJECT GL 89-10 MOV PROGRAM

(CONTINUED)

APRIL, 1994 NRC IFI CLOSEOUT INSPECTION

- * CLOSED 15 OF 17 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS RELATED TO MOV'S
- * THE TWO REMAINING IFI'S WERE RELATED TO GENERIC INDUSTRY ISSUES:
 - * THERMAL BINDING/PRESSURE LOCKING
 - * EXTRAPOLATION METHODOLOGY

SOUTH TEXAS PROJECT GL 89-10 MOV PROGRAM

(CONTINUED)

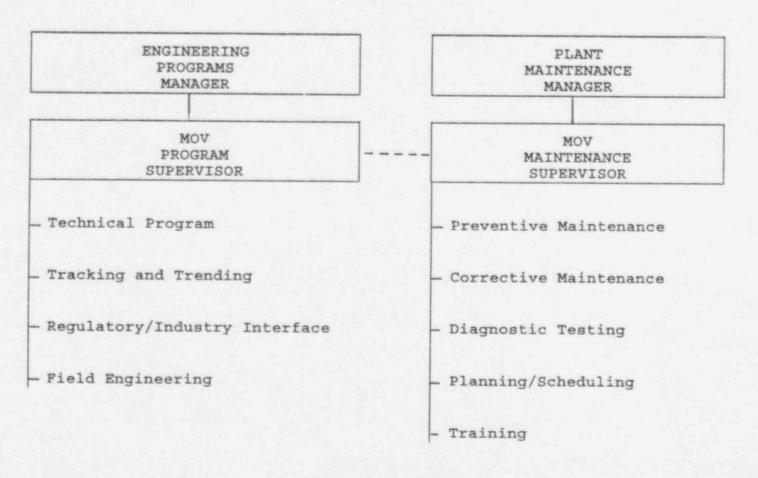
COMPLIANCE PROCESS

- * IDENTIFIED GL 89-10 SCOPE
- * DEVELOPED MAXIMUM EXPECTED DIFFERENTIAL PRESSURE (MEDP) AND THRUST/TORQUE CALCULATIONS (DESIGN BASIS)
- * PERFORMED AS FOUND AND AS LEFT STATIC TESTS AND APPLICABLE DYNAMIC TESTS
- * ANALYZED AND RECONCILED TEST RESULTS AGAINST DESIGN BASIS REQUIREMENTS
- * PERFORMED FINAL DESIGN BASIS REVIEWS AND PACKAGED IN VALVE SPECIFIC BINDERS
- * DEVELOPED AND IMPLEMENTED A TRACKING AND TRENDING PROGRAM
- * DEVELOPED A TRANSITION PLAN AND INITIATED SITE ORGANIZATIONAL RESPONSIBILITY CHANGES
- * SUBMITTED NRC CLOSURE DOCUMENT (JUNE 28, 1994)

SOUTH TEXAS PROJECT GL 89-10 PROGRAM

(CONTINUED)

ORGANIZATION (LONG TERM)



SOUTH TEXAS PROJECT INSERVICE TESTING PROGRAM

- * DISCUSSION
 - * INTERNAL REVIEWS POINTED OUT AREAS FOR IMPROVEMENT
 - * NRC INSPECTION AFFIRMED THE NEED TO IMPROVE
 - * ALTHOUGH WEAKNESS IDENTIFIED, PROGRAM IS COMPLIANT
- * FOCUS AREAS FOR IMPROVEMENT
 - * NO IST PROGRAM BASES DOCUMENT
 - * ADEQUACY OF THE INTERFACING PROGRAMS THAT MAY REQUIRE REVISIONS TO THE PLAN
 - * TIMELINESS OF COMPONENT EVALUATIONS AND PLAN UPDATES

SOUTH TEXAS PROJECT

INSERVICE TESTING PROGRAM

(CONTINUED)

- * PLAN FOR IMPROVEMENT
 - * SELF ASSESSMENT
 - * VERIFY INFORMATION IN PLAN
 - * IDENTIFY TEST PROCEDURES FOR ALL COMPONENTS
 - * EVALUATE ORGANIZATION RESPONSIBILITIES, STAFFING AND TRAINING
 - * EVALUATE EXISTING PROCEDURES AND PROGRAM
 - * EVALUATE INTERFACING PROCEDURES AND PROGRAMS
 - * DESIGN CHANGE PROGRAMS
 - * MAINTENANCE PROGRAMS
 - * SURVEILLANCE PROGRAM, ETC.
 - * GATHER INFORMATION FROM OTHER PLANTS

SOUTH TEXAS PROJECT INSERVICE TESTING PROGRAM

(CONTINUED)

* BASES DOCUMENT

- * PERFORM A SYSTEMATIC REVIEW OF THE DESIGN FUNCTION OF ALL ASME CLASS 1, 2, AND 3 COMPONENTS
- * DEVELOP A TECHNICAL JUSTIFICATION FOR THE INCLUSION OR EXCLUSION OF EACH ASME CLASS 1, 2, AND 3 COMPONENT
- * COMPILE THIS DOCUMENTATION IN A USABLE AND AUDITABLE FORMAT

* SUMMARY

* THIS BASIS DOCUMENT WILL PROVIDE STP WITH AUDITABLE ASSURANCE THAT THE PLAN IS ACCURATE AND COMPREHENSIVE IN SCOPE

SOUTH TEXAS PROJECT NUCLEAR ENGINEERING OVERVIEW

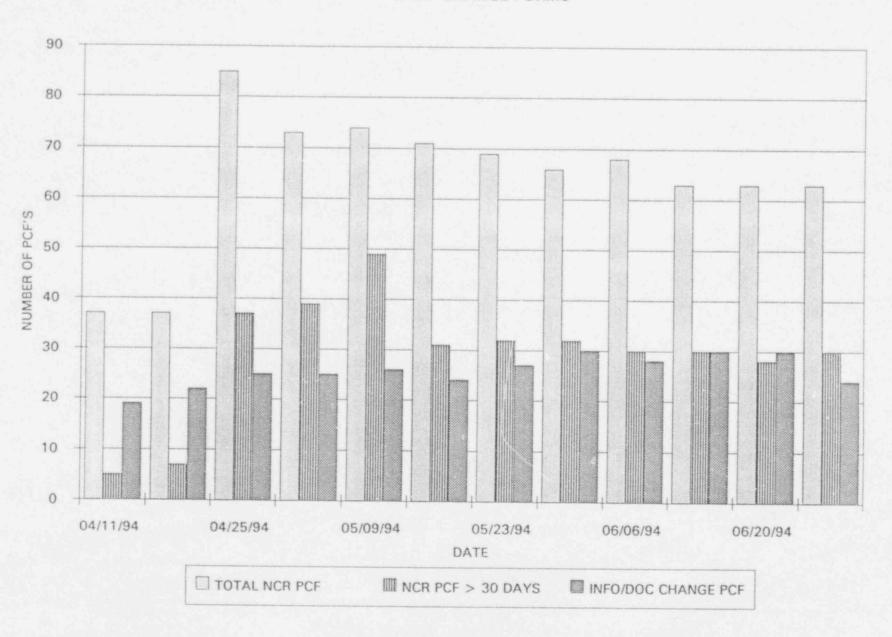
CLOSING REMARKS

05JUL94

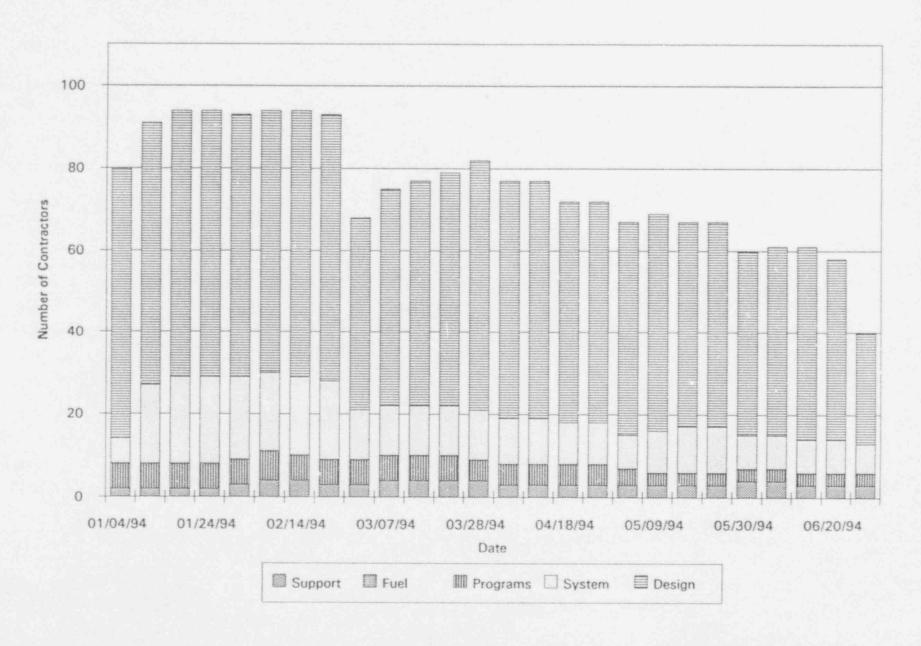
Engineering Master Tracking System ATTARRM

DOC	DOC#	RESOURCE	MHRS	NEED DATE	067		JAN	FEB	MAR	APR	MAY	JUN 19	94 JUL	AUG	SEP	OCT	NOV I	DEC
CAL	CC-5076	WALESM	15	2-NOV-94	-	1	3/7/3	1.00	and the later of t	and the state of t	70	NAME OF STREET		0.8	- 50.7		1007	000
CIV	94-001	ATTARRM	100	30-DEC-94		2								DBD'S OF	PENITEMS 29		NAME (COMPANY)	STREET, STREET
CIV	94-007	ENGENEL	12	1-MAY-94		3				OUT OF 5 YE	POST TENSIS	NING SYSTEM S	URVELLANCE	ACTIONS				
CIV	94-008	ENGENRL	15	1-JUN-94		4		15	8.8550 R204 BB-07	CONTRACTOR.	4名音乐器机力电容性	NEWSCHOOL BERTH	29	ANCHOR THRE	AD REPORT F	ROM VSL		
CIV	94-009	ENGENRL	80	1-DEC-94	-	5				FIRE TEST)) FRESTRICKS	SOUTH BEAUTIES	国会的把发生有关间 等	BESSERHER SES	阿尔斯斯尼亚斯斯斯 里		STERRICE STREET	
CIV	94-010	DUJKADL	100	31-AUG-94		6				UPURADE	COATNO & PR	OGRAM TO INC	LUDE LOW Y D	COATNO M	ATERIA			
CIV	94-011	DUJKADL	50	30-AUG-94	-	7	MCID 89188	SEALING OF	ELECTRICAL MA	WHOLES SUR	VEILLANCE PR	OGRAM 22	EDSTRUCTED A	30				
CIV	94-015	DUJKADL	222	3-JAN-95	1	8		AREA EN	INCERNO SUP	PORT BORG	and and a second	DESENSERS.	CODMENSAR	MONOTOPES AND	MERCHANISM NA	SARCHINGS BAR	883 WERRENGS	SHE REPORTED A
CIV	94-016	DUJKADL	104	4-OCT-94	١.	9			ASSE			CABLE TRAYS	06 698888888	正是在京都市的市场	CHRISPECUSIO	04		
CIV	94-025	WALESM	40	31-DEC-94		10				READING	UST RESIDE	A SCHEFFIELD OF	0.7					
CIV	94-026	WALESM	200	31-DEC-94		11								ESP TRA	CONS 19	21		
DBA	7A091A80340	ATTARRM	101	8-JUL-94	D	12			No Descript	13 sensons	MEASTERNA	DESPERANTANCE.	maintenant 22					
DBA	7A092A80340	ATTARRM	108	8-JUL-94	D	13				13 on (5) 8 8 18 18	*SESSEE E	CHOUSE NORTH	29					
DCN	CD-0189	ROBERST	10	8-JUL-94	D	14							D 0	FRAVVING : RCB	INTERNAL STE	EL FRAMING PL	ANEU-) 2-0 B	ED HAS C
DCN	CD-0234	DUJKADL	25	31-DEC-94	-	15		REPLACEMEN	IT NORGANIC C	CATING 25	STERNSTER	CONTRACTOR	22					
DON	CD-0235	ENGENEL	225	31-DEC-94	D	16	PENT	RATION SEAL	DATA BASE RE	VISION 20	*****	TO SECURIO SE	DAKE SALES OF	****	SERVICE DESCRIPTION OF THE PERSON OF THE PER	1	30	
ECN	90C001	ENGENRL	0	-		17	1/90C001 (CIV	/ - PROVIEW S	HIELDING ARD	UND FOEL 7E	ANSFER 🗸							
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ECN	900001	SKINNEJE	20			20						DE	SIGN REVISION	10 29				
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ECN	92C004	DUJKADL	0		-	22	1/92C004 (CIV	SUPPORT	BRACKETFOR	SHIELDING .	4							-
ECN	920004	DUJKADL	15	-	-	23				VPOD REVIEW	VAPPROVAL *	PM APPROVAL	08 14 6m2					
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ECN	920004	WALESM	10		1.	26		FINAL CO	ST ESTIMATE	5 SERVICE DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DE L	uninentario de la constanta de	30	1					
ECN	92C004	WALESM	10		-	27					DEDYDM	SIGNATURE 01	07					
ECN	92C004	WALESM	0	-	-	28				VPOD REVIEW	WAPPROVAL +	PM APPROVAL	08 14					
ECN	920006	ROBERST	0			29	1/92C008 /CIV	- REDUCE N	O/SE LEVEL IN									
ECN	920006	ROBERST	0	1		30												
	Lanca de la constante de la co	JL			CKI	NEJE	94.4	158.4	294 4	268 8	324.8	361.2	370.8	346.8	197.2	154.0	49.6	
						LESM	4.0	43.2	142.0	109.2	141.6		74.8		130.0	136.8	15.2	16
						DCIV												
						DSEIS												
	Eng	ineering N	Aanha	LIFE		OTAL	261.6	396.8	719.4	734.0	1,000.0	998.0	1,143.0	947.2	631.4	542.6	181.2	52
	Eng	meering i	Vidiliio	ouis														

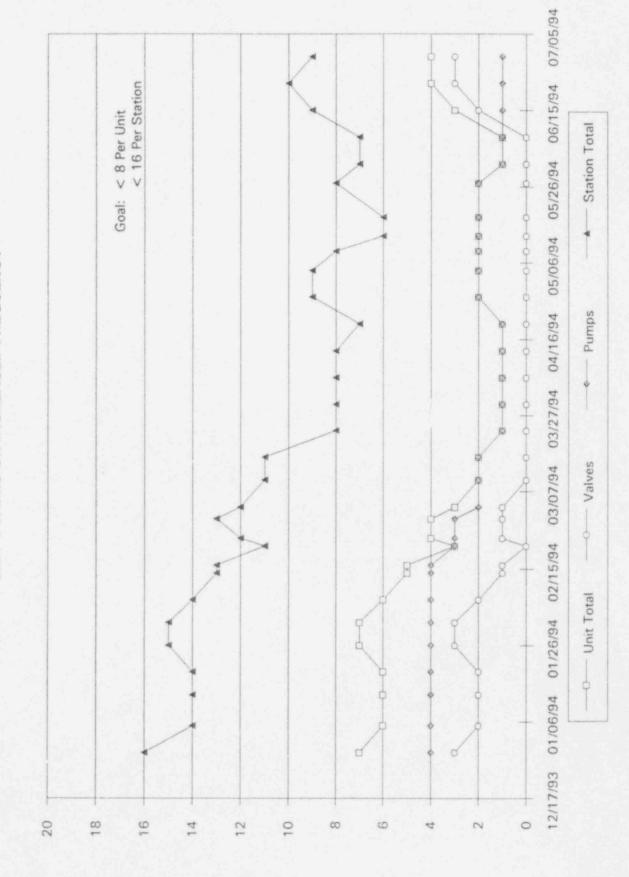
DESIGN ENGINEERING PLANT CHANGE FORMS



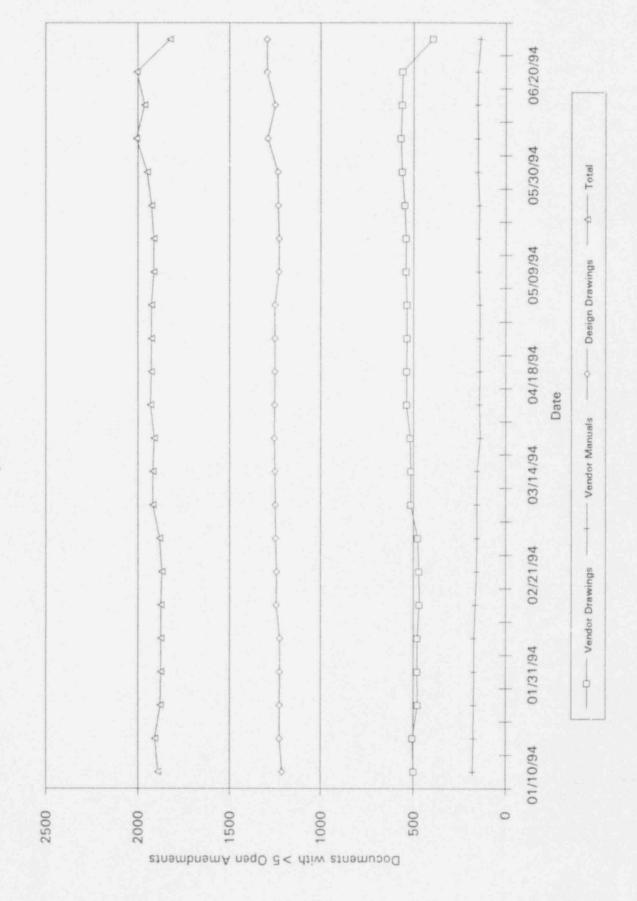
NUCLEAR ENGINEERING Contractor Support on Site



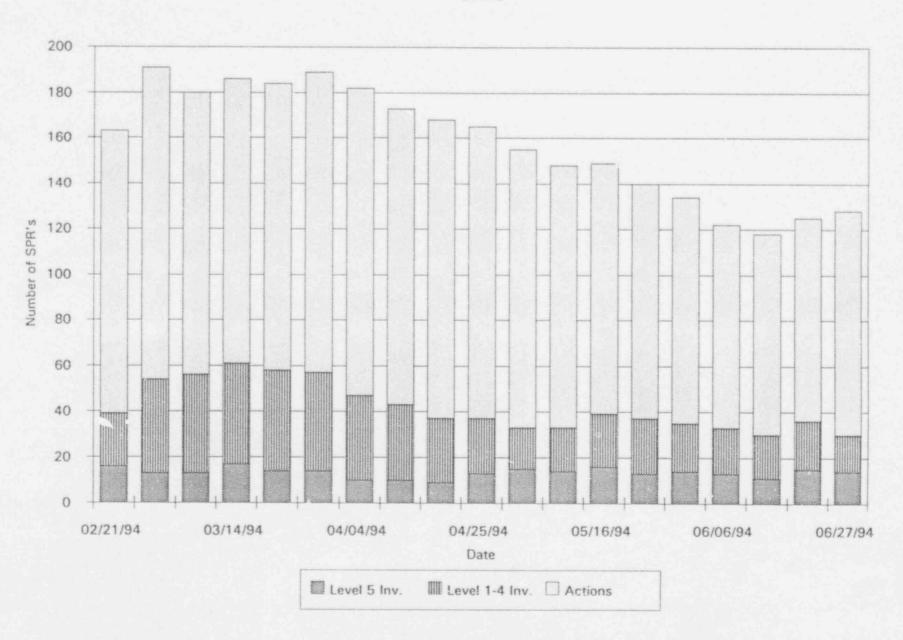
ENGINEERING PROGRAMS
UNIT 1 ITEMS ON INCREASED FREQUENCY



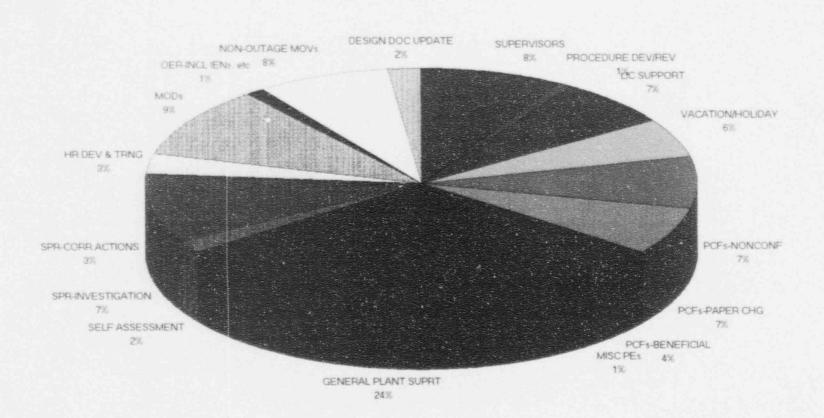
DESIGN ENGINEERING DEPARTMENT
Major Plant Documents



DESIGN ENGINEERING DEPARTMENT TRENDS SPR's



DESIGN ENGINEERING MANHOURS MECHANICAL/CIVIL (CC:494) THRU 4/24/94



DESIGN ENGINEERING - MECHANICAL/CIVIL



