

LIST OF ACRONYMS

AGS	Assistant General Supervisor
ANSI	American National Standards Institute
ASEU	Auxiliary Systems Engineering Unit
ASME	American Society of Mechanical Engineers
BG&E	Baltimore Gas & Electric Company
CCETS	Calvert Cliffs Equipment Tracking System
CCI	Calvert Cliffs Instruction
CCNPP	Calvert Cliffs Nuclear Power Plant
CFR	Code of Federal Regulations
CMU	Configuration Management Unit
Dockret	Document Retrieval
E&C	Electrical & Controls
EPRI	Electric Power Research Institute
EPU	Engineering Planning Unit
ETD	Equipment Technical Database
FCR	Facility Change Request
FSTC	Functional Surveillance Test Coordinator
GS	General Supervisor
HPES	Human Performance Evaluation System
INPO	Institute of Nuclear Power Operations
IREP	Interim Reliability Evaluation Report
ISEU	Independent Safety Evaluation Unit
ISI	In-Service Inspection
JUMA	Joint Utility Management Audit
K-T	Kepner-Tregoe
MO	Maintenance Order
MPS	Maintenance Planning System
MR	Maintenance Request
MSU	Management Systems Unit
NCR	Non-Conformance Report
NED	Nuclear Energy Division
NEDCP	Nuclear Energy Division Control Procedure
NESD	Nuclear Engineering Services Department
NIP	Nuclear Information Project
NIPS	Nuclear Information Planning and Support
NMS	Nuclear Maintenance System
NPP	Nuclear Program Plan
NRC	Nuclear Regulatory Commission
O&M	Operations & Maintenance
OMC	Outage and Maintenance Coordination - Operations and Maintenance Coordinator
OSSRC	Off-Site Safety Review Committee
PIP	Performance Improvement Plan
PM	Preventive Maintenance
PMT	Post Maintenance Testing
POEAC	Plant Operating Experience Assessment Committee

LIST OF ACRONYMS (Cont'd)

POSRC	Plant Operations and Safety Review Committee
PUP	Procedure Upgrade Program
P&PE	Plant and Project Engineering
QA	Quality Assurance
QAP	Quality Assurance Procedure
QASSD	Quality Assurance and Staff Services Department
QAU	Quality Audits Unit
QC	Quality Control
QCMU	Quality Control Master Unit
RCA	Root Cause Analysis
RCM	Reliability Centered Maintenance
SOER	Significant Operating Event Report
SSFI	Safety System Functional Inspection
SSTC	Site Surveillance Test Coordinator
ST	Surveillance Test
STI	Special Team Inspection
STP	Surveillance Test Procedure
VP	Vice President

11. Insufficient resource allocation.

Correlation of PIP Implementation Program sections with PIP Action Plans and associated root cause numbers defined above is shown in Table 1.1. Table 1.4 shows the same information sorted by root cause.

None of the Action Plans contained in the PIP has been deleted or downgraded in importance. However, all of them have been ranked in priority relative to each other for planning and resource projection purposes. Action Plans have been rearranged in this submittal by their functional relationship rather than by root cause groups as in the PIP. This new arrangement is as follows:

o Management Process Improvements (Section 2.0)

Action Plans related to setting goals and priorities, management planning, resource allocation, and accountability are included under this tab.

o Organizational Dynamics Improvements (Section 3.0)

Action Plans related to improving management skills, improving intergroup communications, and performing work in BG&E's organization structure are included under this tab.

o Assessment Capability Improvements (Section 4.0)

Action Plans related to self-assessment of activities for safety significance, root cause analysis, improving effectiveness of quality assurance and quality control, and improving BG&E's understanding of nuclear industry problems for application at Calvert Cliffs are included under this tab.

o Activity Control Improvements (Section 5.0)

Action Plans related to improving technical capabilities, upgrading procedures, improving the procurement and maintenance processes, and improving design basis document control are included under this tab.

o PIP Verification Processes (Section 6.0)

The methods by which PIP implementation and effectiveness will be verified using the verification methods described above are included under this tab.

- Planning and establishing more effective controls on the procedure upgrade process.
- Establishing realistic priorities, allocating resources, and establishing appropriate schedules.
- Integrating procedure upgrade activities with other Action Plans including Surveillance Test Program (Section 5.2.2), Post Maintenance Testing (Section 5.2.3), and Procurement Program Project (Section 5.3.1).
- Establishing an organization to provide increased procedure process controls, project management controls, procedure upgrade standards, and procedure tracking methods.
- Transition of current procedure upgrade into this Action Plan.

OUTCOME/RESULTS

The results to be achieved under this Action Plan are:

- Centralized management of the procedures upgrade process.
- Establish site-wide procedure preparation and revision standards.
- Train procedure writers, reviewers and approvers in the new procedure preparation standards.
- Develop and implement reviewer qualification standards.
- Revise scheduling of procedure reviews and revisions.
- Establish cross-disciplinary review process.

METHODS

The methods for performing this Action Plan are:

1. Rank procedure revisions with respect to the importance of the procedure and its need for revision.
2. Develop and implement a site-wide procedure writer's guide.

3. Revise top level control procedures and standards for the preparation of procedures.
4. Implement training program for Procedure Upgrade personnel.
5. Develop and implement Procedure Upgrade progress tracking system.

RESOURCES

See Appendix B, PIP Action Plan Resources.

RESPONSIBILITY

The responsibility for this Action Plan is assigned to:

- o Project Manager, Procedure Upgrade Program.

The schedule for this Action Plan is presented in Appendix A, PIP Action Plan Schedules.

VERIFICATION

Implementation verification:

1. Verify that acceptable Writer's Guide and procedure preparation procedure have been prepared.
2. Verify training of procedure preparers has been completed.
3. Verify appropriateness of procedure revision schedule.

Feedback verification:

4. Supervisor observation and feedback from workers on progress of procedure upgrade.

Effectiveness verification:

5. The effectiveness of the Procedure Upgrade Program will be evaluated through all four vertical slice assessments described in Section 6.3. Because this is a long-term effort, ultimate effectiveness of the Program will be assessed by Quality Assurance assessments that include effectiveness evaluation concepts.

METHODS

The methods for performing this Action Plan are:

1. Implement a new organization with clear cut lines of responsibility and overall program control under one individual.
2. Develop/Revise formal control procedures.
3. Develop a computerized scheduling and data tracking system.
4. Upgrade all STP's to a common format (part of Procedure Upgrade Program)

The schedule for this Action Plan is presented in Appendix A, PIP Action Plan Schedules.

RESOURCES

See Appendix B, PIP Action Plan Resources.

RESPONSIBILITY

The responsibility for this Action Plan is assigned to:

- o Overall Responsibility Items 1, 2 & 3 - Site Surveillance Test Program Manager.
- o Overall Responsibility Item 4 - Program Manager, Procedures Upgrade Program.

VERIFICATION

Implementation verification:

1. Verify organization and staffing of the new consolidated surveillance test group.
2. Verify ST preparation and control procedures have been prepared and revised.
3. Verify that an appropriate ST procedure schedule has been prepared and is being implemented.
4. Verify the development of the scheduling and data trending programs.
5. Verify the development of new consistent data reports.

6. Verify training of appropriate personnel in the new ST control and preparation procedures.

Feedback verification:

7. Verify the consistent application and use of the new procedures.

Effectiveness verification:

8. The Management and Quality Assurance Assessment, the Self-Assessment and Events Analysis Assessment, and the Maintenance/Operations Interfaces and Support Assessment described in Section 6.3 will evaluate the effectiveness of the Surveillance Test Program improvements.

assessments. Many of the Action Plans are covered by two or more assessments further assuring in-depth evaluation of effectiveness from different perspectives.

Table 6.1 provides our current correlation between the vertical-slice assessments and the Action Plans that they will cover. Some revisions may occur based on results from implementation and feedback verifications or from the process to develop detailed vertical-slice assessment checklists. Development of the detailed assessment plans will include evaluation of the elimination of root causes of decline in Calvert Cliffs performance to assure that the root causes have been adequately addressed.

During the assessments, the vertical-slice width will be extended horizontally as necessary to determine if appropriate, effective methodologies and procedures have been implemented. If a problem is suspected, the horizontal extent of the assessment will be widened in the specific area of concern until the boundaries of the generic problem (issue) can be adequately defined. The assessments will cross organizational lines and will assess overall performance in related functional areas. The goal will be to evaluate the effectiveness of performance improvement efforts, and to verify that plant programs and initiatives have been revised to incorporate and implement concepts for continued improvement.

These vertical-slice assessments will be performed under the direction of the Quality Assurance Section. A "building block" approach was employed to determine the order in which the assessments are to be performed, starting with the Management and Quality Assurance assessment. Performance improvement in these areas is fundamental to all other efforts; therefore, these areas must be assessed first.

The Management and Quality Assurance Assessment is scheduled for the first quarter of 1990 so that its results can be factored into the 1990 Spring Planning Conference. The remaining three assessments will be performed sequentially with appropriate intervals between them. The assessment intervals will be based on the Action Plan schedules and on the expected rate and order in which significant performance improvements can be expected to occur. Some of the Action Plans will be implemented over long periods. In these cases, the assessments listed in Table 6.1 will gauge effectiveness of the pilot programs. Their long-term effectiveness will be evaluated under subsequent effectiveness verifications that will be made part of the on-going Quality Assurance Program.

5.3 Configuration Control Improvements

Several Action Plans have significant impact on configuration control activities at Calvert Cliffs. These include the Procurement Program Project, NIPS Equipment Technical Database and Maintenance Planning System, Technical Manual Improvements, and the Configuration Management Unit. These are discussed below.

5.3.1 Procurement Program Project

The goal of the Procurement Program Project is to develop an integrated procurement program that provides items acceptable for nuclear safety related use.

In recognition of procurement program deficiencies identified by the NRC at other nuclear plants in the mid-to-late 1980s and the development of the EPRI Guideline NP-5652, "Guideline for the Utilization of Commercial Grade Items in Nuclear Safety Related Applications," BG&E established a Procurement Task Force. The Procurement Task Force charter was to evaluate current regulatory interpretations, the results of internal audits, and the recommendations of an assessment conducted by industry experts. The Procurement Task Force evaluation led to the establishment of a full-time Procurement Program Project Team to develop and implement an action plan.

The Project Team identified the following ten objectives for the Procurement Program Project:

- Develop procedures to ensure that the required technical evaluation of replacement items is adequate to maintain the design basis of the plant
- Develop a program to ensure that product acceptance activities are adequate to ensure the quality of the procured items
- Modify existing procedures to reflect the new procurement program
- Upgrade existing technical documents used as input to the procurement process
- Establish an integrated procurement organization (which is adequately staffed) to increase the efficiency and effectiveness of the new procurement process
- Improve procurement planning activities to reduce lead time, reduce cost, and improve inventory control

- Develop and implement a centralized procurement database and procurement tracking system
- Conduct training on procurement
- Provide logistics support (i.e. facilities, office support equipment, and software) needed to implement the new program)
- Develop the methodology for the transition from program development to program implementation (change management)

To implement these objectives, the Procurement Program Project has assigned Task Managers for each objective. Each objective has been broken down to required tasks and sub-tasks to facilitate identifying resources and scheduling.

In the third objective, a task calls for the development of a new Calvert Cliffs Instruction (CCI). This CCI will describe the generic safety related and non-safety related procurement process starting with the identified need for an item to its final issuance from the storeroom. The CCI will be the controlling document for which the specific procedures, practices, and methods shall be established.

To assist in development of the new procurement program, BG&E has retained the services of a consultant, who has been involved in upgrading other utilities' procurement programs.

OUTCOME/RESULTS

The results to be achieved under this Action Plan include:

- Develop and implement a procurement program which is consistent with current industry practices and NRC guidelines.

METHODS

The methods for performing this Action Plan are:

1. Improve procedures for technical evaluation of replacement items.
2. Improve product acceptance procedures to ensure the quality of procured items.
3. Modify existing procedures to reflect the new procurement program.

Feedback verification:

4. Prepare and use a feedback form for users as well as personnel in direct and indirect procurement functions.

Effectiveness verification:

5. The effectiveness of the Procurement Program Project will be evaluated by the Management and Quality Assurance Assessment, the Design and Implementation (FCR) Assessment, and the Maintenance/Operations Interfaces and Support Assessment described in Section 6.3. The ultimate evaluation of the Procurement Upgrade Program will be by means of Quality Assurance assessments that incorporate effectiveness concepts.

METHODS

The methods for performing this Action Plan are:

1. Select and purchase software package.
2. Test, and modify software package.
3. Perform user acceptance testing.
4. Perform data collection and conversion.

The schedule for this Action Plan is presented in Appendix A, PIP Action Plan Schedules.

RESOURCES

See Appendix B, PIP Action Plan Resources.

RESPONSIBILITY

The responsibility for this Action Plan is assigned to:

- o Supervisor, Nuclear Information Planning and Support Unit.

VERIFICATION

Implementation verification:

1. Verify implementation of a software package.
2. Verify training plan implementation and assignment of individual tasks.
3. Perform periodic audits to assure that procedures are being followed.

Feedback verification:

Not applicable

Effectiveness verification:

4. The effectiveness of this Action Plan will be evaluated by the Maintenance/Operations Interface and Support Assessment as described in Section 6.3.

07/31/89 04/07/89
 PIPIP ACT PLAN #
 - -
 MANAGEMENT PROCESS IMPROVEMENTS

PERFORMANCE IMPROVEMENT PI-N
 SUMMARY STATUS REPORT

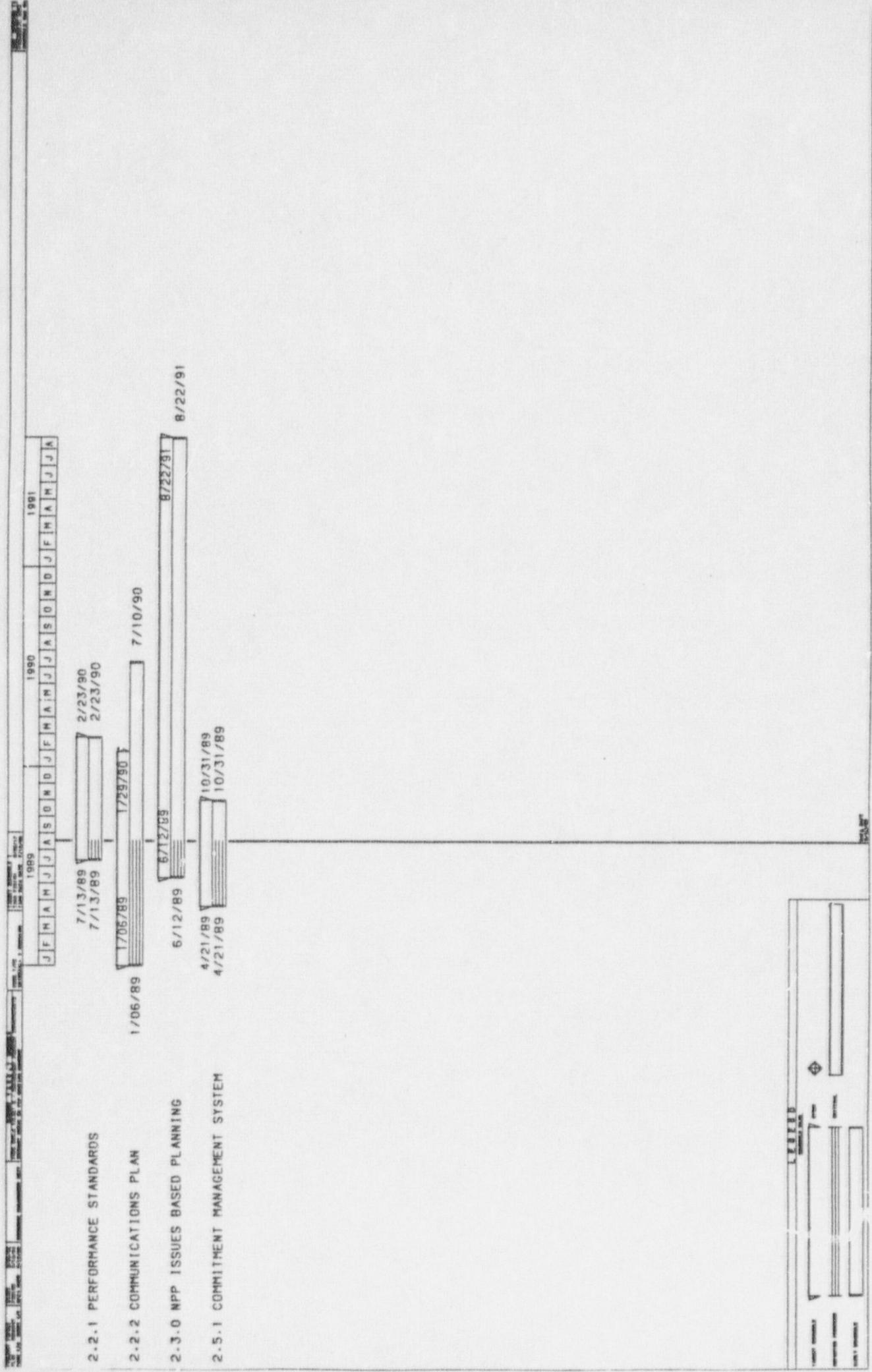
		S U B J E C T	ACT PLAN #	PLAN MANAGER	TOTAL MNHRS	REMAINING MNHRS	START DATE	TARGET COMPLETION DATE
2.2.1	II.B.9	PERFORMANCE STANDARDS	-	MARKOWSKI, MIKE	142.00	124.00	7/13/89	2/23/90
2.2.2	II.B.4	COMMUNICATIONS PLAN	-	EDWARDS, ANN	11285.00	5791.00	1/06/89	1/29/90
2.3.0	II.B.1A	NPP ISSUES BASED PLANNING	-	TIETJEN, KEN	689.00	182.00	6/12/89	8/22/91
2.5.1	II.B.6	COMMITMENT MANAGEMENT SYSTEM	-	TAYLOR, TOM	2163.00	1205.00	4/21/89	10/31/89

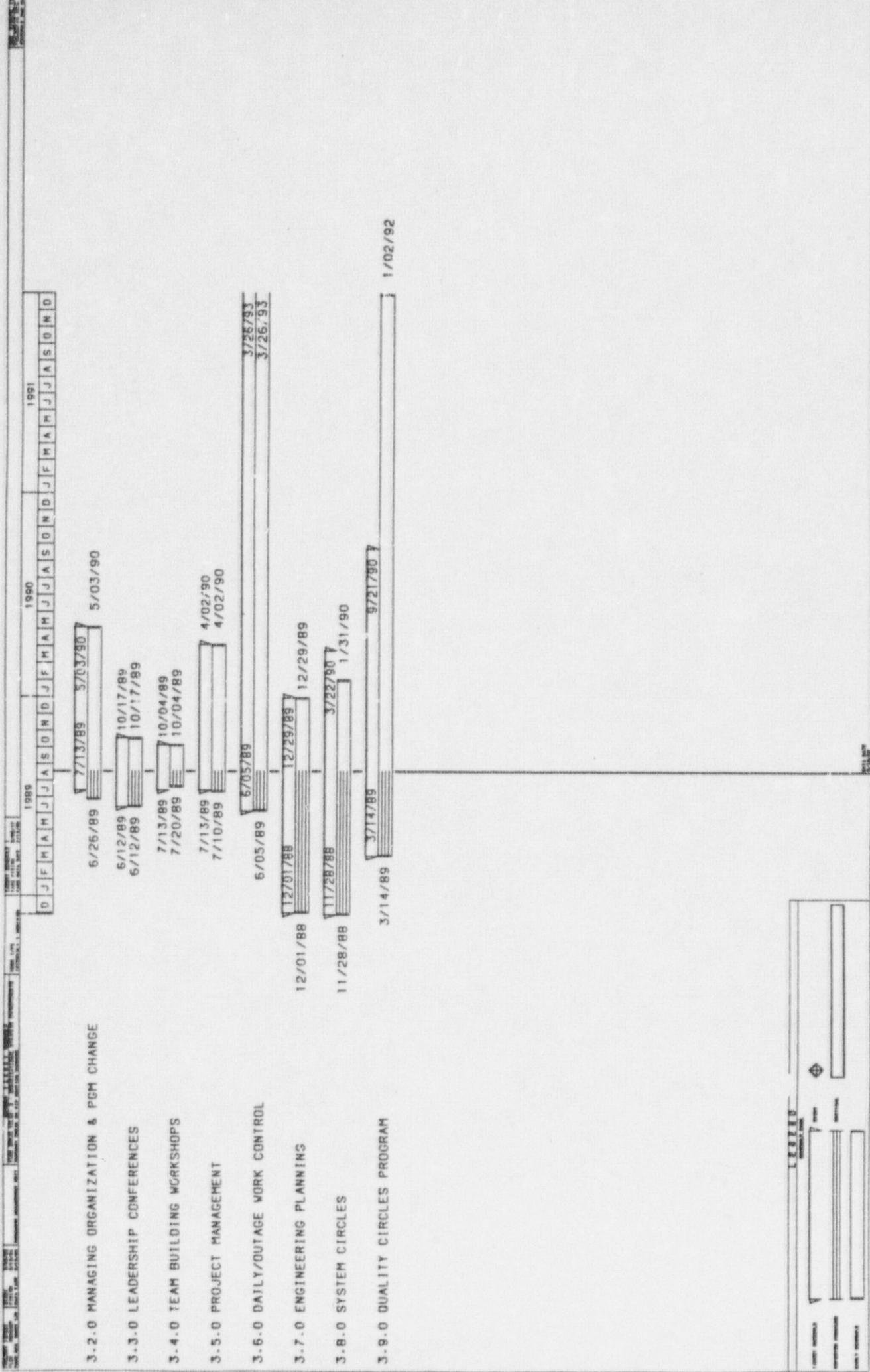
ORGANIZATIONAL DYNAMICS IMPROVEMENTS								
3.2.0	IV.B.5	MANAGING ORGANIZATION & PGM CHANGE	-	MARKOWSKI, MIKE	328.00	328.00	6/26/89	5/03/90
3.3.0	II.B.11	LEADERSHIP CONFERENCES	-	MARKOWSKI, MIKE	78.00	2.00	6/12/89	10/17/89
3.4.0	II.B.7	TEAM BUILDING WORKSHOPS	-	MARKOWSKI, MIKE	192.00	192.00	7/20/89	10/04/89
3.5.0	II.C.1	PROJECT MANAGEMENT	-	ZURNWALT, ERIC	3660.00	3660.00	7/10/89	4/02/90
3.6.0	IV.B.3	DAILY/OUTAGE WORK CONTROL	-	WOLF, GUS	6662.00	6302.00	6/05/89	3/26/93
3.7.0	IV.B.2	ENGINEERING PLANNING	-	MARINARI, DAN	5594.00	1064.00	12/01/88	12/29/89
3.8.0	II.C.2	SYSTEM CIRCLES	-	POLAK, MIKE	4075.00	2958.00	11/28/88	3/22/90
3.9.0	II.B.6	QUALITY CIRCLES PROGRAM	-	EDWARDS, ANN	9962.00	5798.00	3/14/89	9/21/90

ASSESSMENT CAPABILITY IMPROVEMENTS								
4.2.0	III.C.3B	QC IMPROVEMENTS	-	ROMNEY, KEN	73444.00	73424.00	3/01/89	1/30/91
4.3.0	III.C.3A	QA INTERNAL ASSESSMENT IMPROVEMENTS	-	ANUJE, ANA	11496.00	10664.00	5/18/89	7/25/90
4.4.0	III.C.2	INDEPENDENT SAFETY EVAL UNIT	-	PIERINGER, PAUL	24304.00	24304.00	5/18/89	6/18/91
4.5.0	III.B.3	SAFETY ASSESSMENT	-	KATZ, PETE	3352.20	3063.20	5/08/89	2/07/91
4.6.0	III.C.4	ROOT CAUSE ANALYSIS	-	DAVIS, STEVE	3727.10	3124.00	5/09/88	2/11/91
4.7.0	III.B.2	POSRC	-	CARROLL, JOHN	15.00	120.00	6/01/89	11/08/89
4.8.0	III.B.1	OSSRC	-	PRITCHETT, TOM	130.00	1181.00	1/20/89	11/02/89
4.9.0	III.B.7	VISITING OTHER PLANTS	-	BOWMAN, HARRY	520.00	480.00	7/21/89	12/08/89

ACTIVITY CONTROL IMPROVEMENTS								
5.2.1	II.B.10	PROCEDURE UPGRADE PROGRAM	-	LATHAM, DAN	552935.00	520500.00	2/01/89	12/31/92
5.2.2	II.C.2	SURVEILLANCE TEST PROGRAM	-	DUNKERLY, CHARLIE	403594.01	403590.01	6/01/89	5/29/91
5.2.3	III.C.7	POST MAINTENANCE TESTING	-	HAYDEN, JOHN	3934.00	104.00	1/03/89	9/01/89
5.3.1	III.C.6	PROCUREMENT PROGRAM PROJECT	-	DOSWELL, JOE	28369.00	28349.00	9/05/89	9/27/90
5.3.2	II.B.5AB	NIPS EQUIP DATABASE/MAINT PLNG SYS	-	SHERANKO, BOB	11216.00	9945.00	3/31/89	9/05/90
5.3.3	II.C.6	TECHNICAL MANUAL IMPROVEMENTS	-	ROY, G	6470.00	6330.00	7/13/89	11/01/90
5.3.4	III.B.4	CONFIGURATION MANAGEMENT UNIT	-	PERKS, P.	167650.00	167400.00	7/13/89	9/02/94
5.4.1	III.B.5	SYSTEM ENGINEER TRAINING	-	YOE, JIM	5874.00	5568.00	5/05/89	12/18/89
5.4.2	II.C.7	MINOR MODIFICATIONS	-	MIRANDA, TONY	1267.00	1051.00	6/26/89	12/01/89
5.4.3	III.B.6	RELIABILITY CENTER MAINTENANCE	-	GREENE, KEN	8384.00	6536.00	9/30/88	12/27/89

990924.19 934115.19





DCI PROGRAM

5/09/88 - 2/11/91

5/01/89 - 7/21/89 5/18/89 - 2/11/91

3/01/89 5/18/89 5/08/89 5/09/88 6/01/89 6/01/89 6/13/89 7/13/89 7/18/89 7/25/89

4.2.0 OC IMPROVEMENTS

4.3.0 OA INTERNAL ASSESSMENT IMPROVEMENTS

4.4.0 INDEPENDENT SAFETY EVAL UNIT

4.5.0 SAFETY ASSESSMENT

4.6.0 ROOT CAUSE ANALYSIS

4.7.0 POSRC

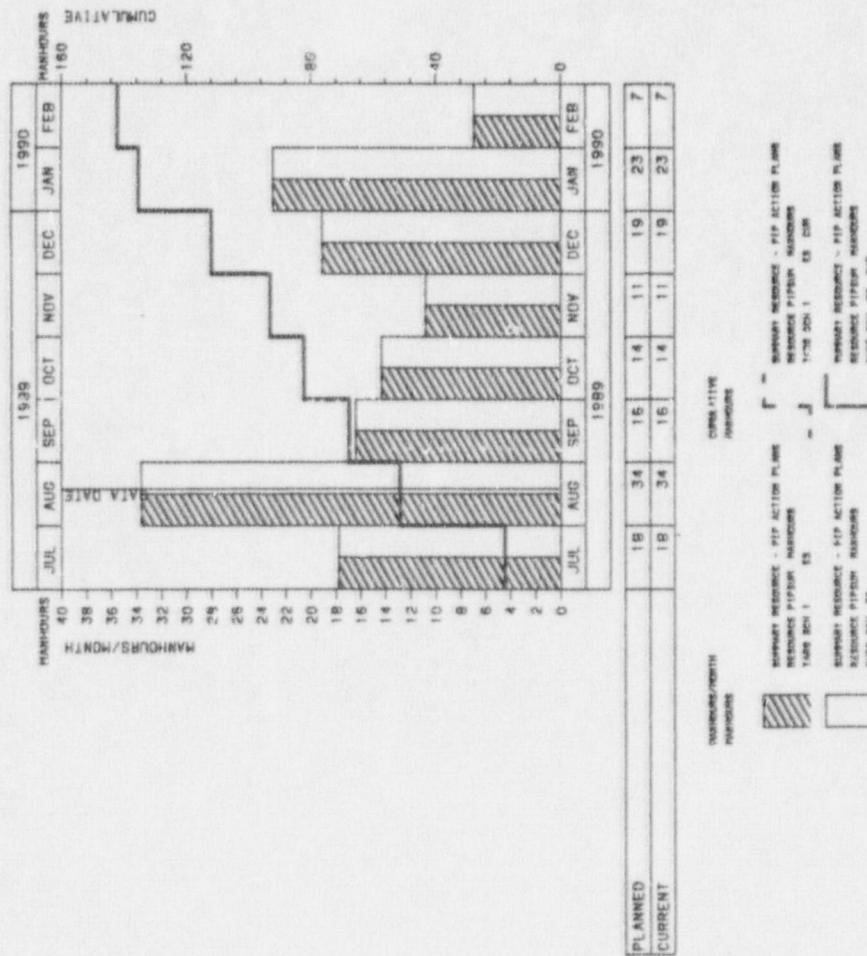
4.8.0 OSSRC

4.9.0 VISITING OTHER PLANTS

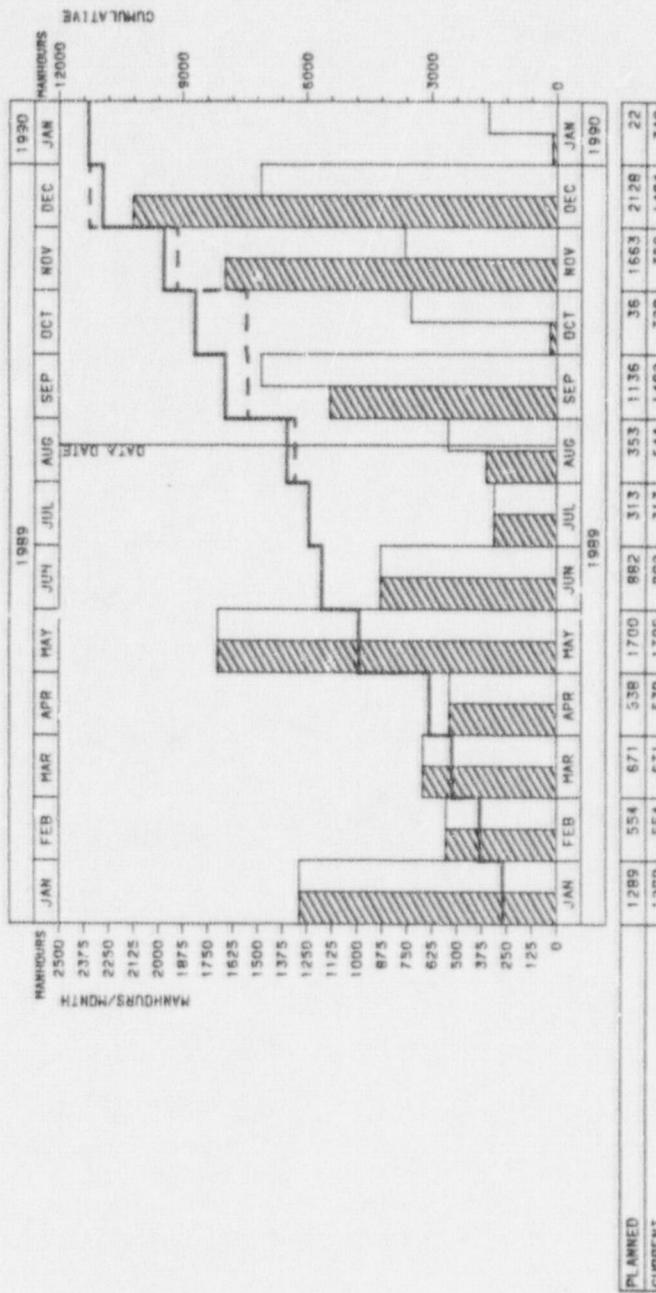
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		O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D
5.2.1	PROCEDURES UPGRADE PROGRAM	2/01/89	2/01/89			12/31/92 6/01/92
5.2.2	SURVEILLANCE TEST PROGRAM					
5.2.3	POST MAINTENANCE TESTING					
5.3.1	PROCUREMENT PROGRAM PROJECT					
5.3.2	NIPS EQUIP DATABASE/PAINT PLNG SYS	3/31/89	9/01/89 9/01/89	9/05/89 9/05/89	9/27/90 8/27/90	5/10/91
5.3.3	TECHNICAL MANUAL IMPROVEMENTS	7/13/89	7/13/89	7/13/89	11/01/90	3/05/90
5.3.4	CONFIGURATION MANAGEMENT UNIT	7/13/89	7/13/89	7/13/89		3/05/91 5/10/94
5.4.1	SYSTEM ENGINEER TRAINING	5/05/89	12/18/89 12/18/89	5/05/89	9/05/90	9/05/90
5.4.2	MINOR MODIFICATIONS	6/01/89 6/26/89	12/01/89 11/27/89			
5.4.3	RELIABILITY CENTER MAINTENANCE	9/30/88	6/01/89	12/27/89	2/13/90	



CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
2.2.1 PERFORMANCE STANDARDS



CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
2.2.2 COMMUNICATIONS PLAN



MANHOURS/MONTH
MANHOURS/MONTH

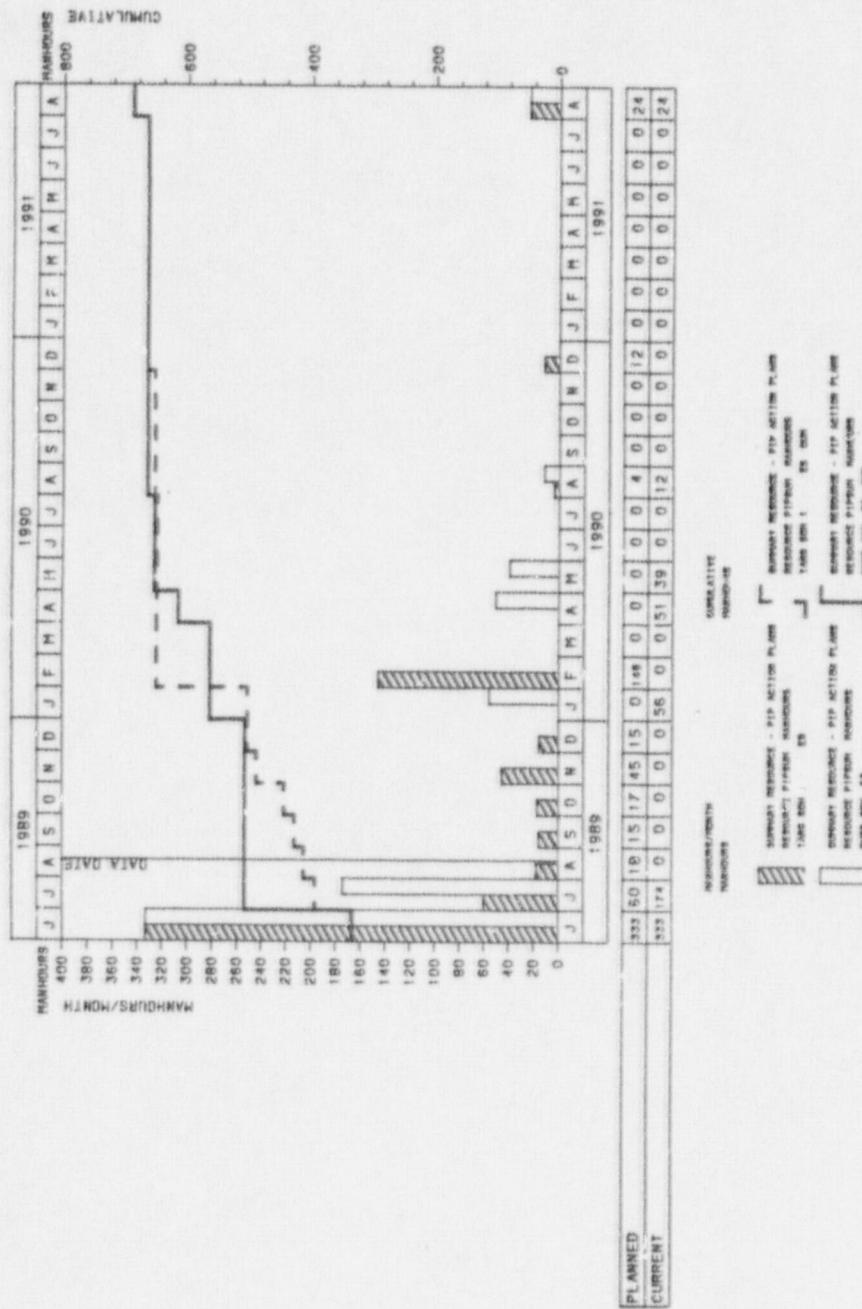
1989
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN
1990

CUMULATIVE
MANHOURS

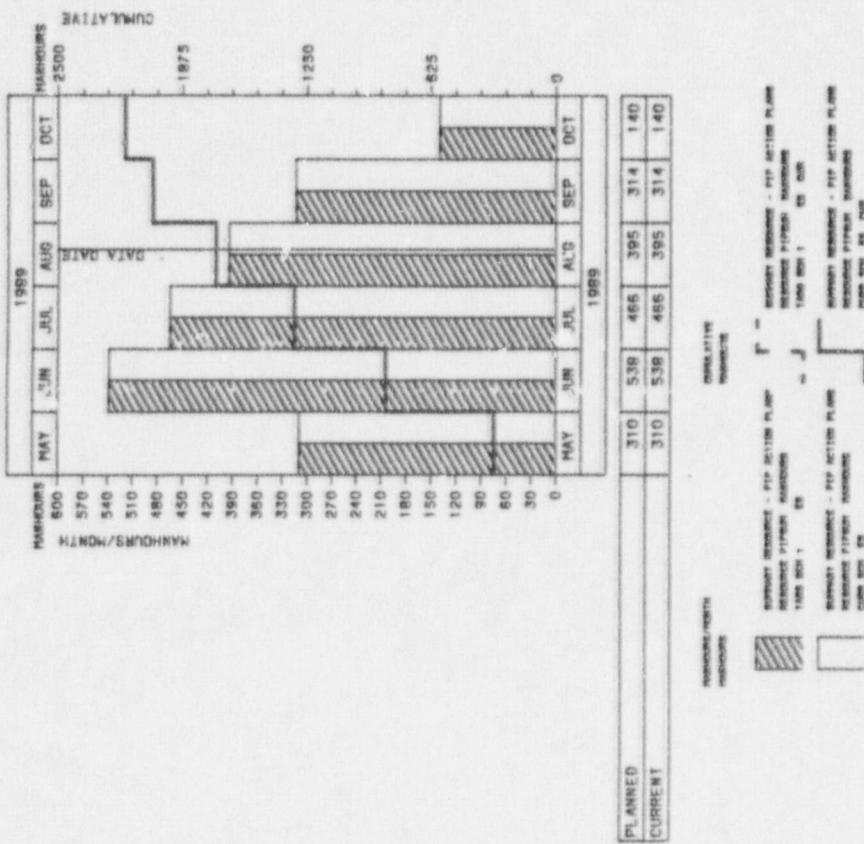
1990
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN
1991

LEGEND
 SUMMARY RESOURCE - PIP ACTION PLANS
 Bars 85 = RESOURCE PIPED RESOURCES
 Bars 1 = TAKEN OUT - TS CDR
 SUMMARY RESOURCE - PIP ACTION PLANS
 Bars 85 = RESOURCE PIPED RESOURCES
 Bars 1 = TAKEN OUT - TS CDR

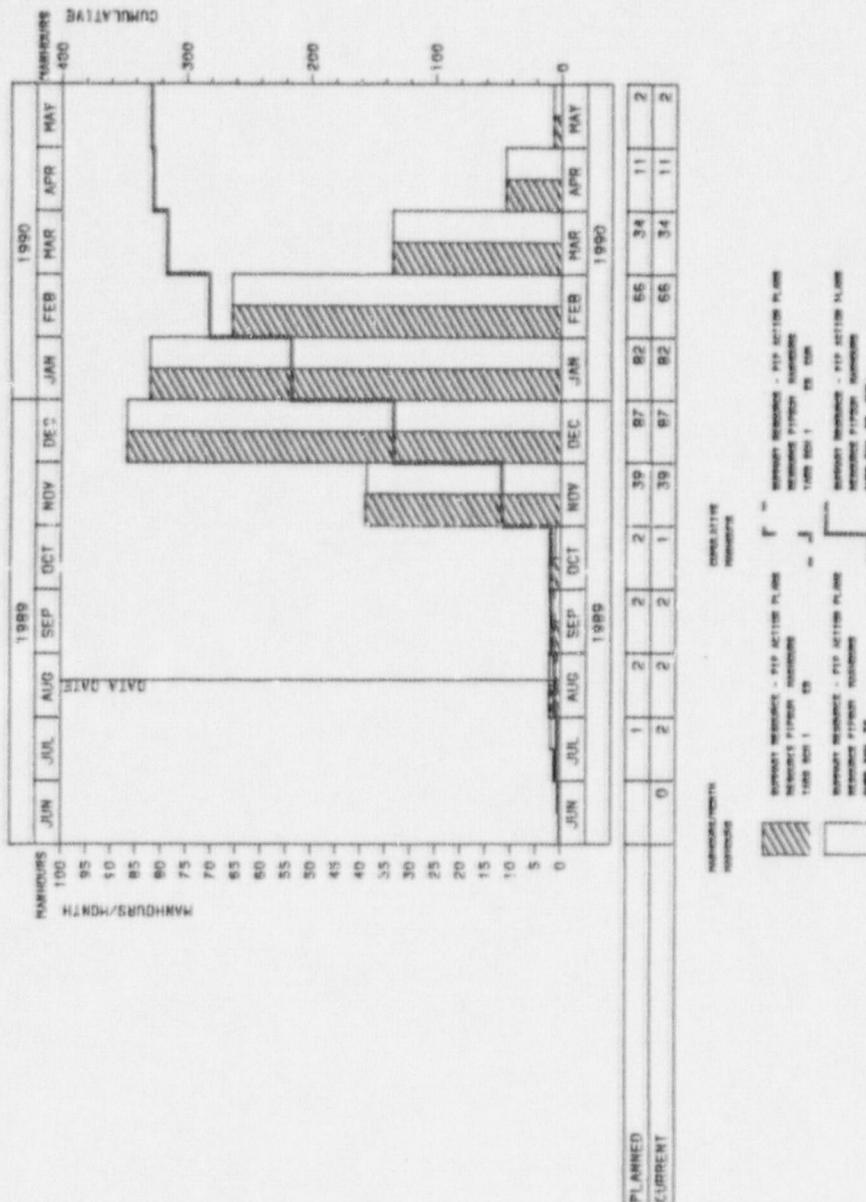
CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
2.3.0 NPP ISSUES BASED PLANNING



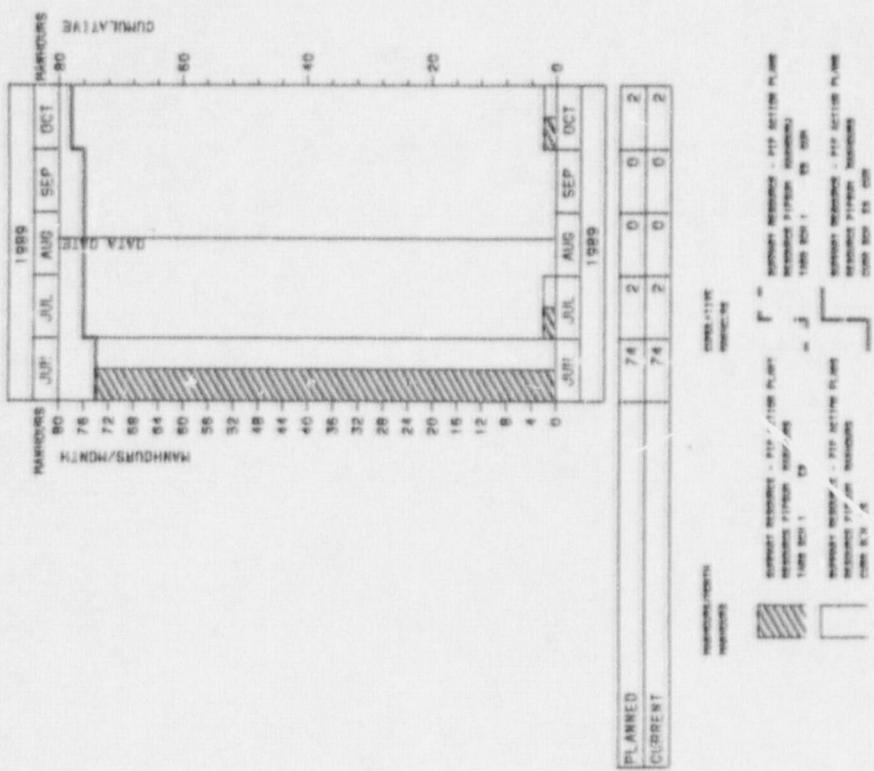
CALVERT CLIFFES NUCLEAR POWER PLANT PERFORMANCE MANAGEMENT SYSTEM



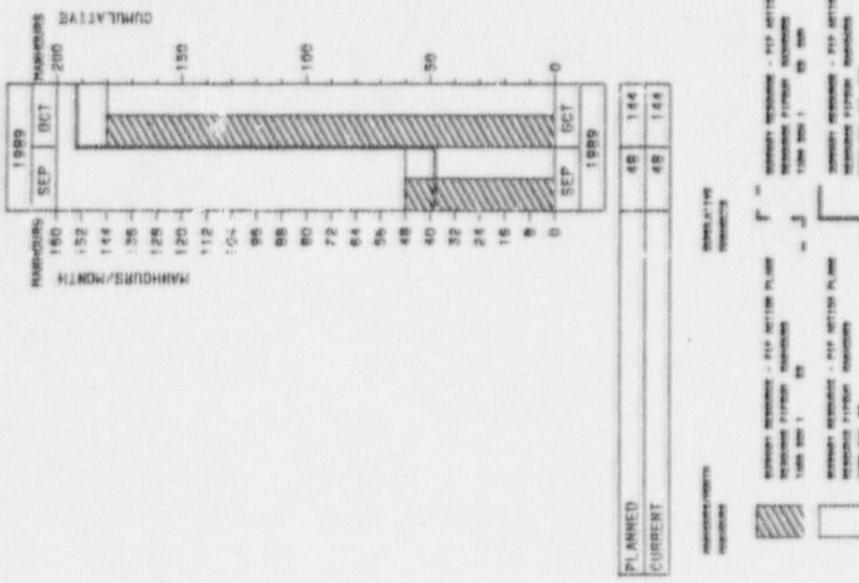
CALVERT CLIFFS NUCLEAR POWER PLANT
3.2.0 PERFORMING MANAGEMENT PLAN CHANGE



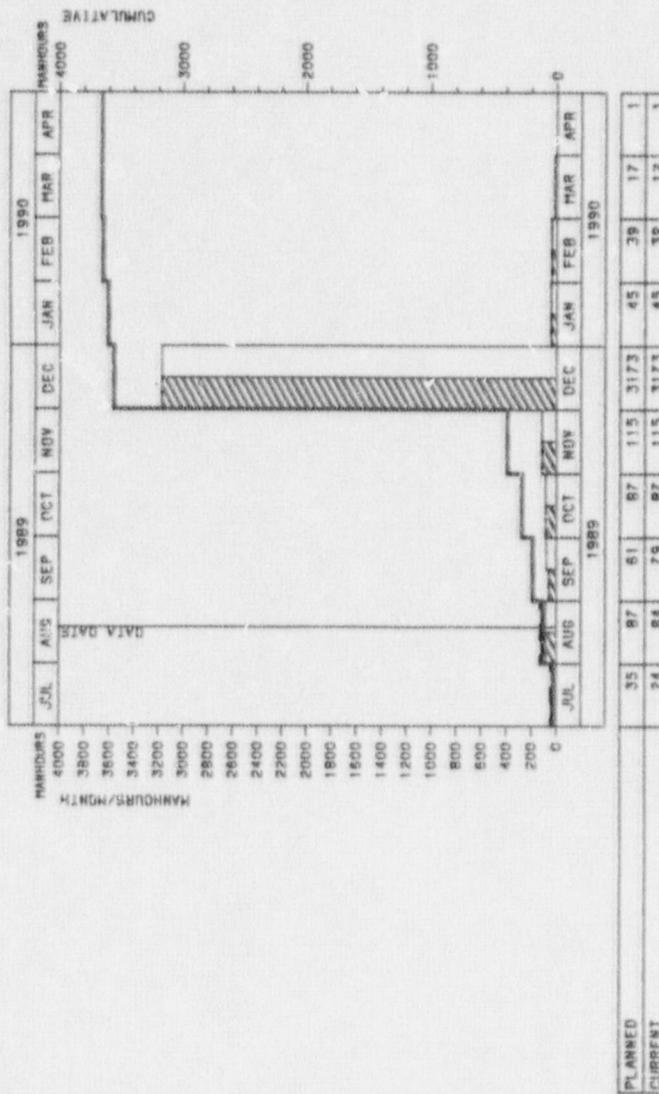
CALVERT CLIFFS NUCLEAR POWER PLANT PERIODIC REVIEW PLAN 3-S. OWNERSHIP CONFERENCES



CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
J.C.O TEAM BUILDING WORKSHOPS



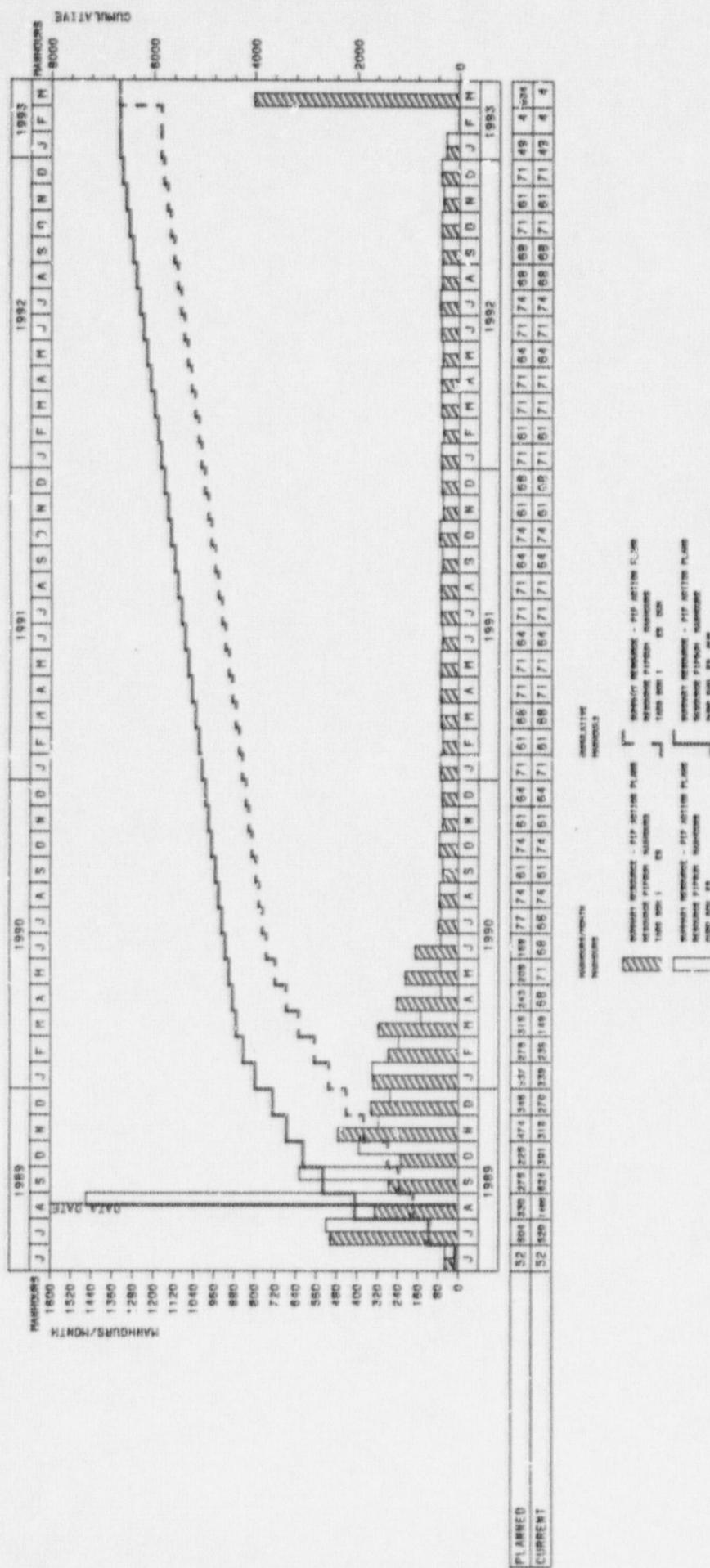
CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
3-S.O. PROJECT MANAGEMENT



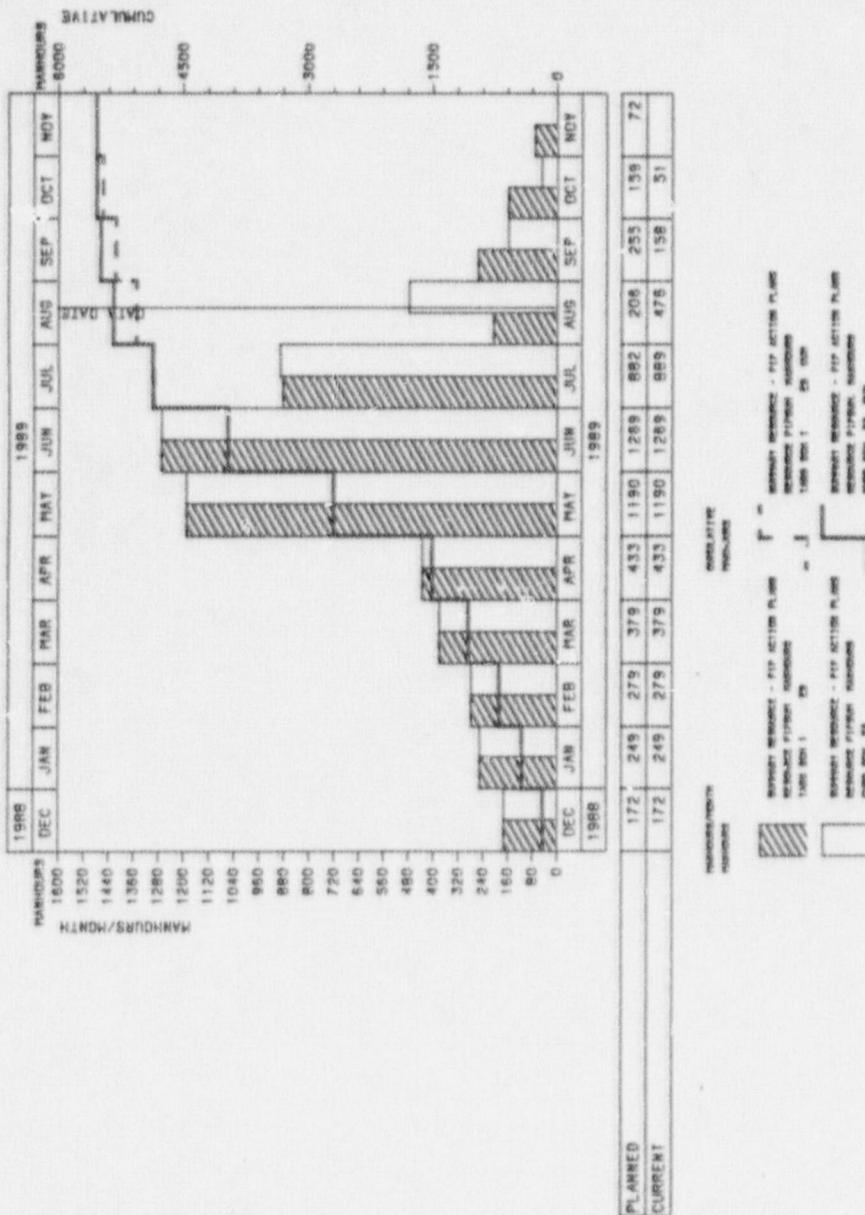
REASONABLE WORKLOAD
MANHOURS

- Planned Workload - PIP 401100 P1000
 - Actual Workload - 1000 Manhours
 - 1000 Manhours = 1000 Manhours
 - 1000 Manhours = 1000 Manhours
- Current Workload - PIP 401100 P1000
 - Actual Workload - 1000 Manhours
 - 1000 Manhours = 1000 Manhours
 - 1000 Manhours = 1000 Manhours

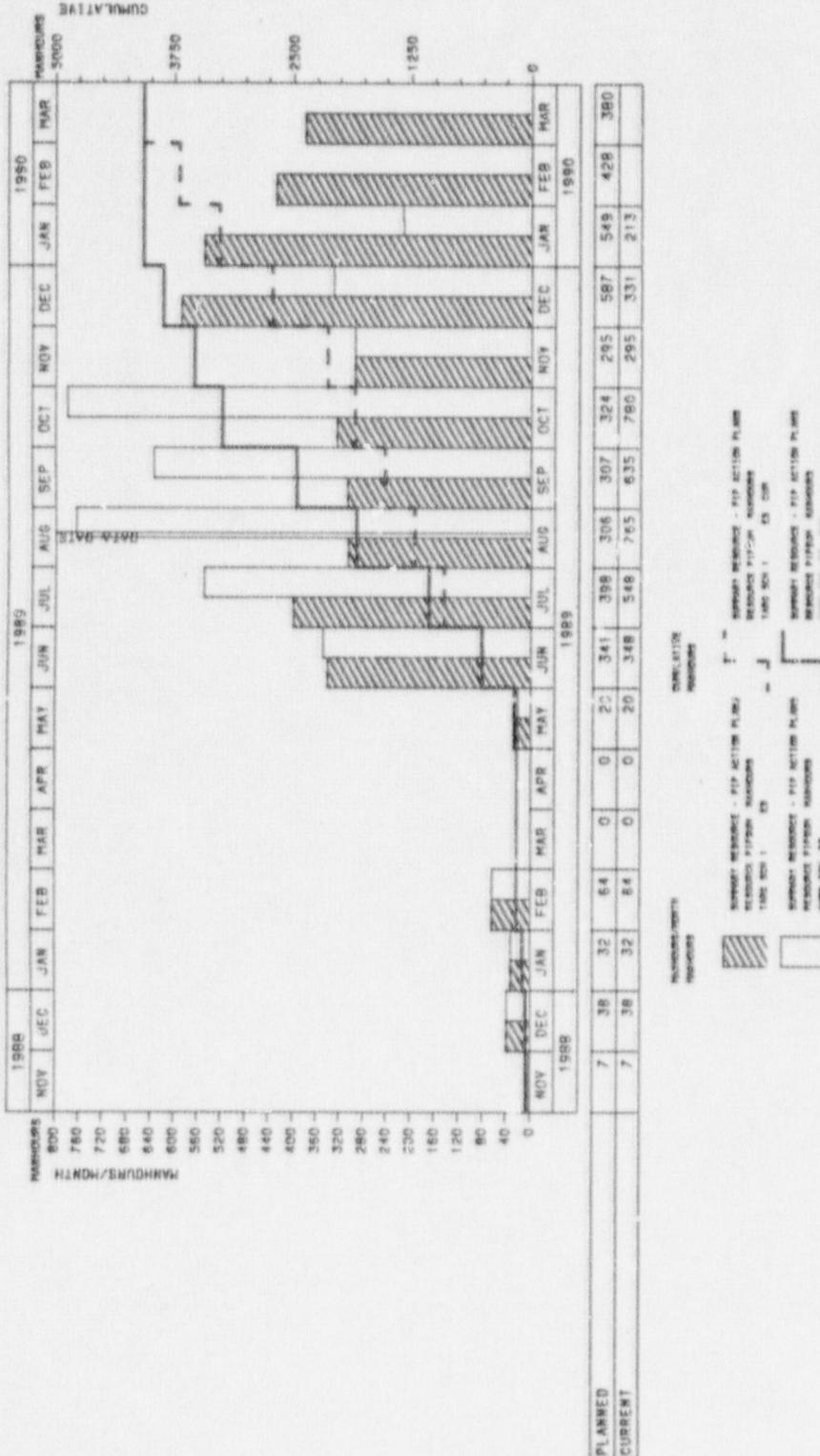
CALVERT CLIFFES NUCLEAR POWER PLANT
PERFORMANCE MONITORING PLAN
3-6-0 DAILY MEASURED WORK CONTROL



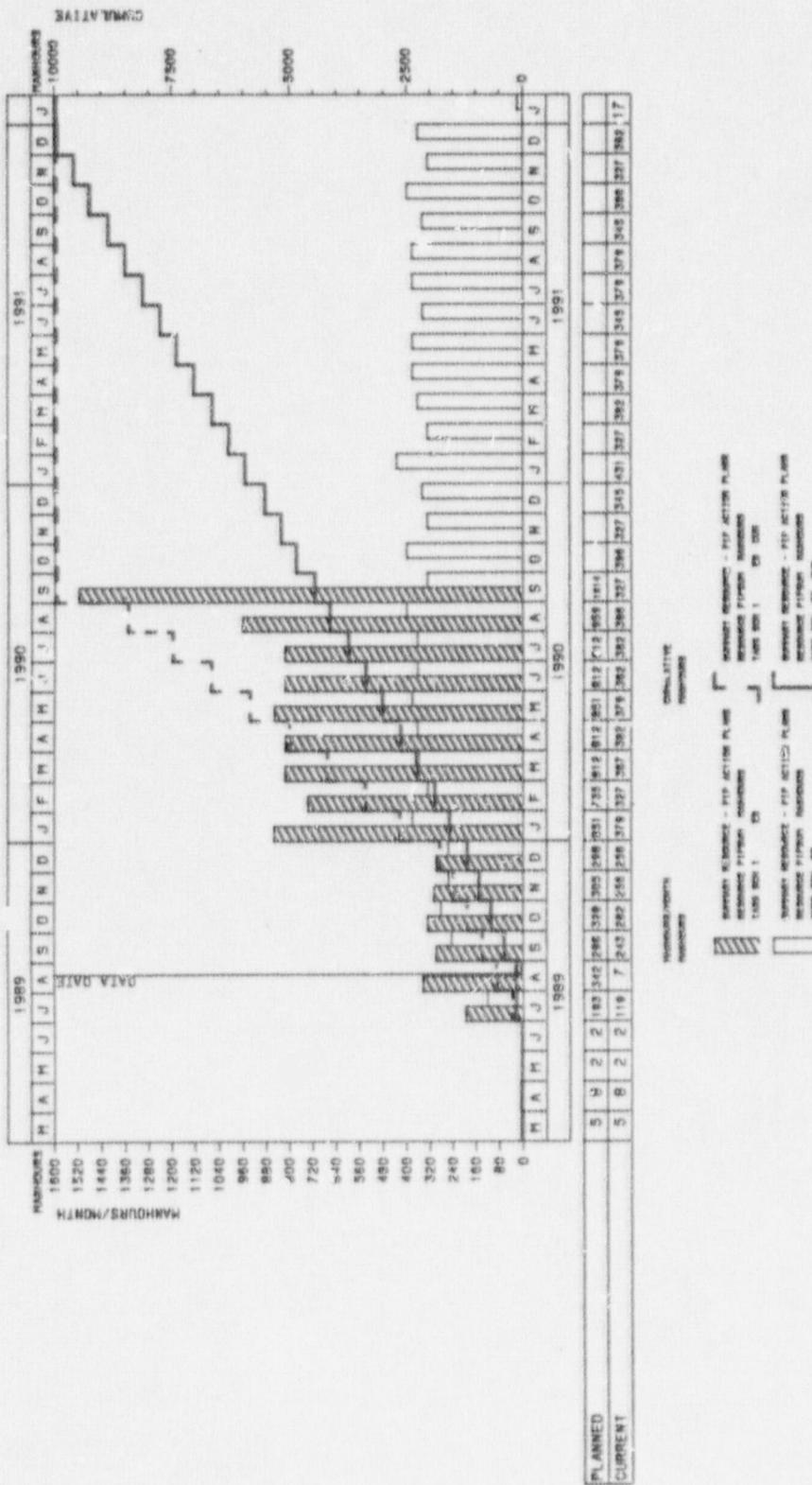
CALVER CLIFFS NUCLEAR POWER PLANT
PERFORMANCE ENGINEERING PLANNING



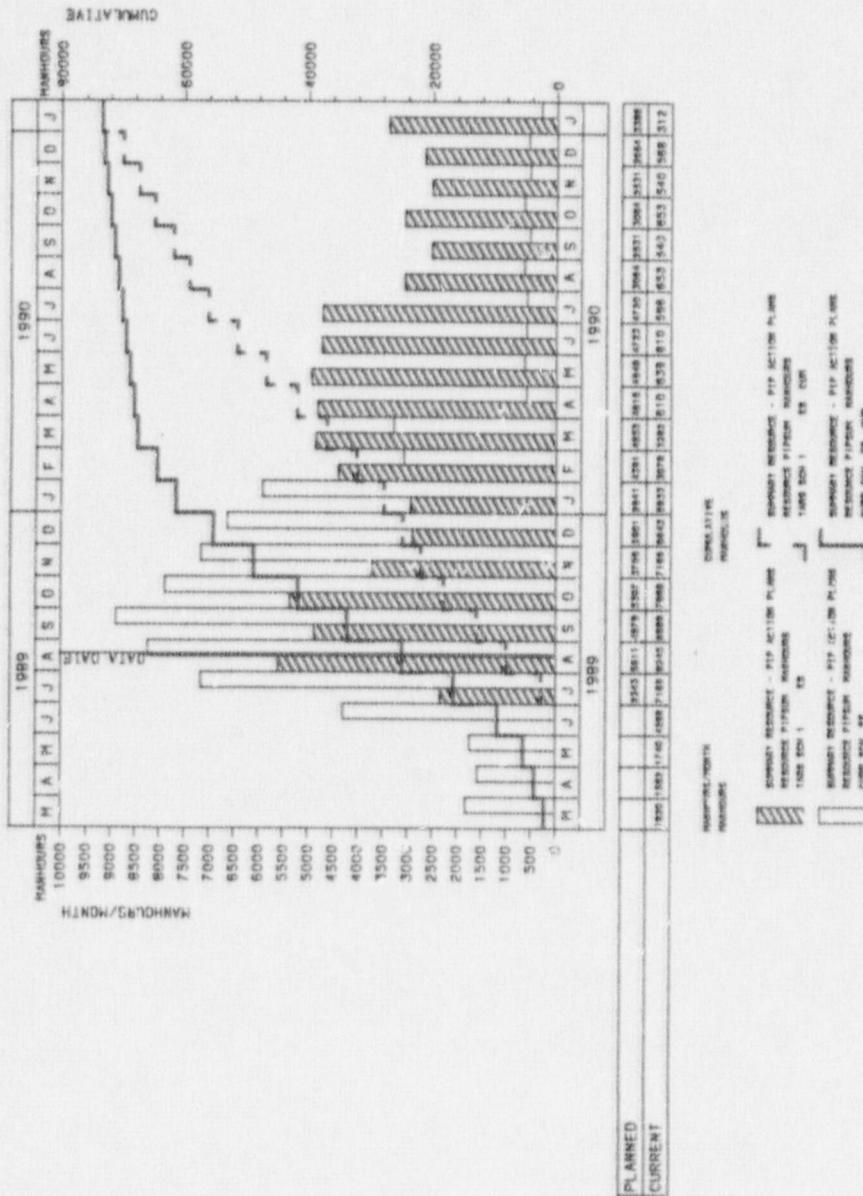
CALVERT CREEK POWER PLANT



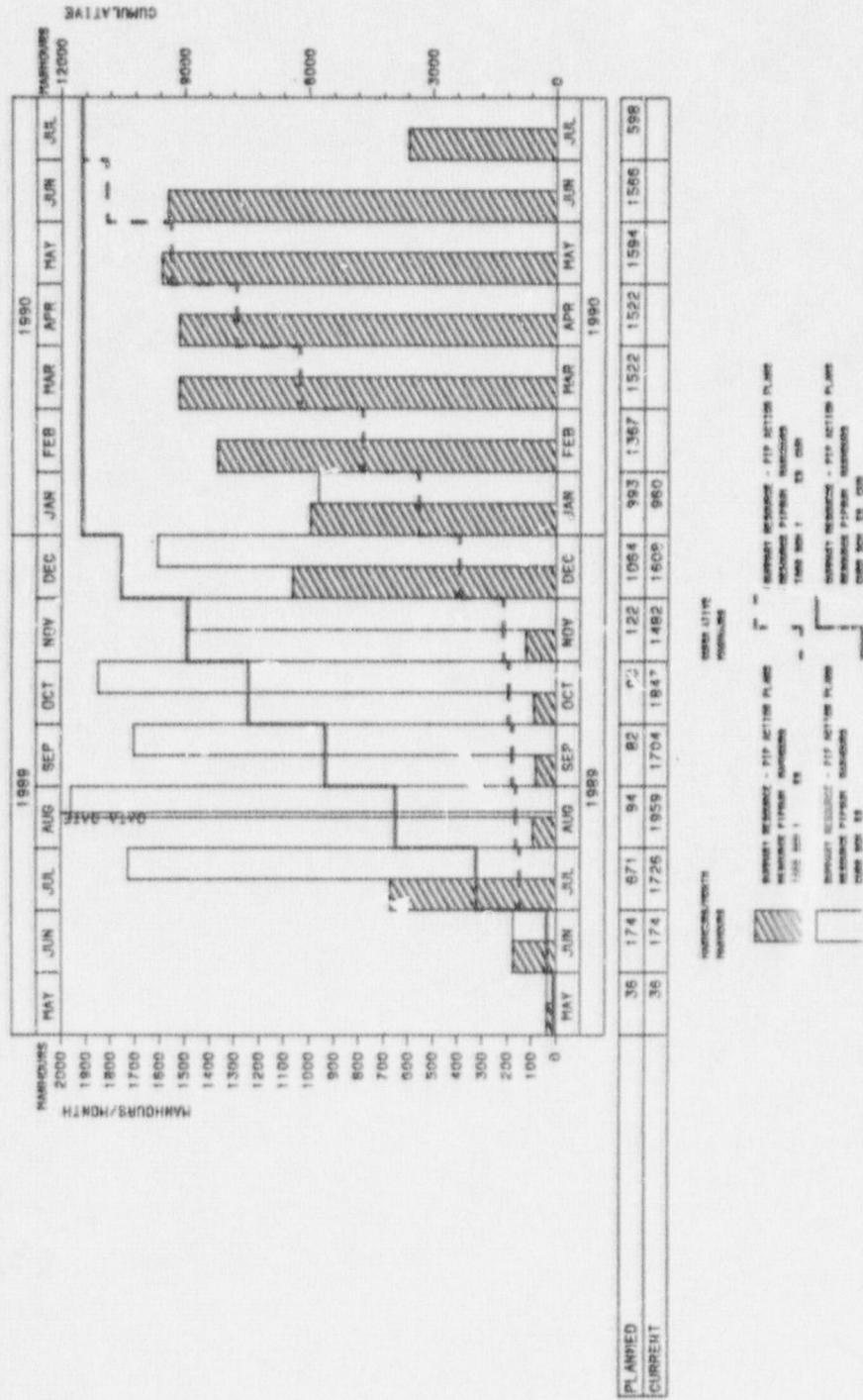
CALVERT CLIFFES NUCLEAR POWER PLANT PERFORMANCE IMPROVEMENT PLAN 3-Q.O. QUALITY CIRCLE'S PROGRAM



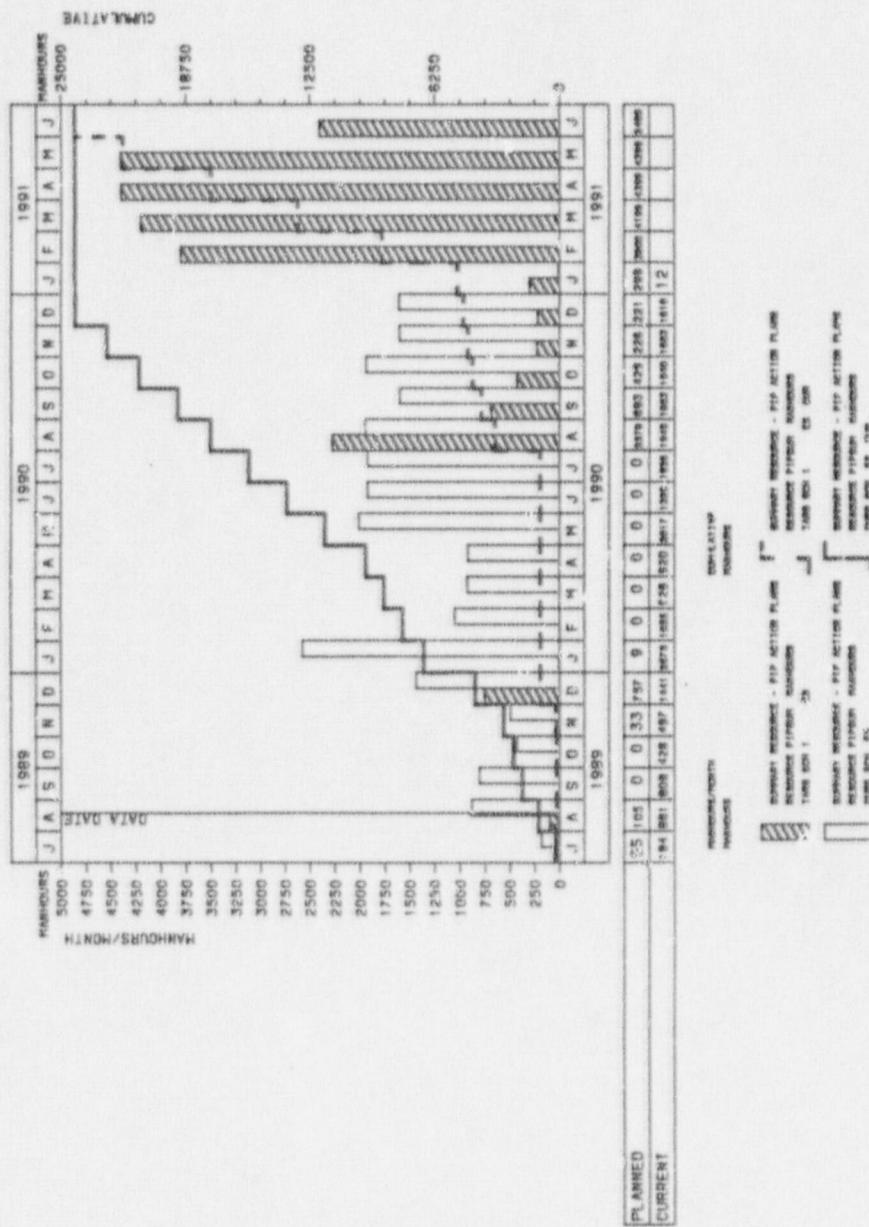
CALVERT CLIFFES NUCLEAR POWER PLANT PERFORMANCE IMPROVEMENT PLAN 4.2.0 QC IMPROVEMENTS



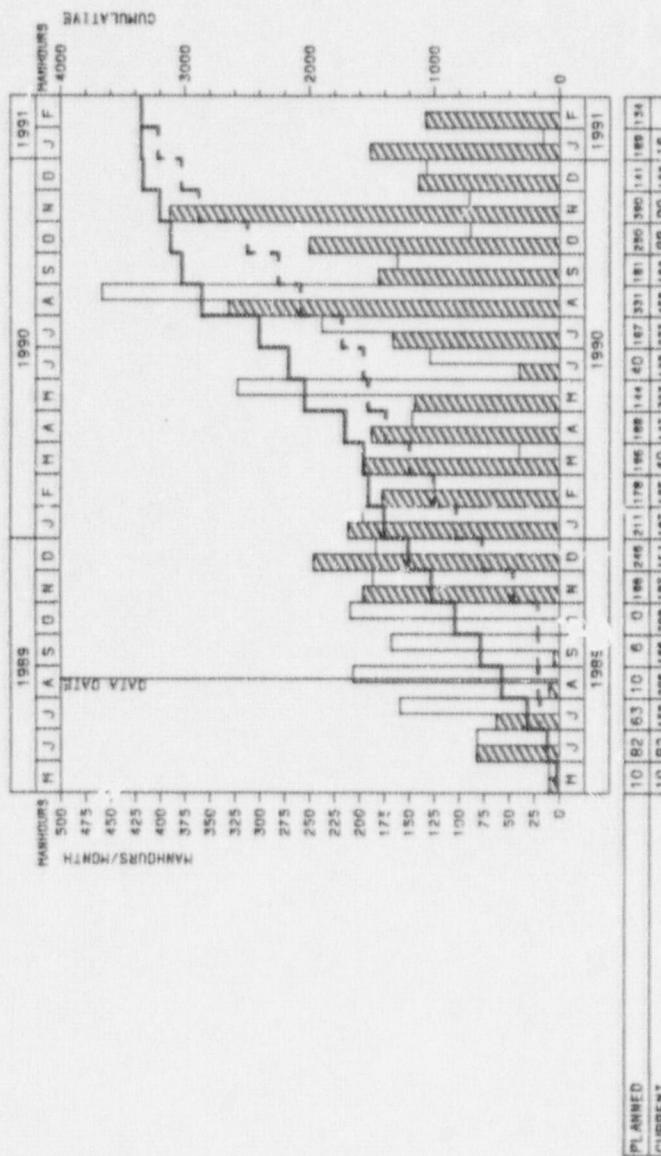
CALVERT CLIFFS NUCLEAR POWER PLANT
4.3.0 QA INTERNAL ASSESSMENT IMPROVEMENTS



CALVERT CLIFFS NUCLEAR POWER PLANT
4.4.0 INDEPENDENT SAFETY EVAL. UNIT



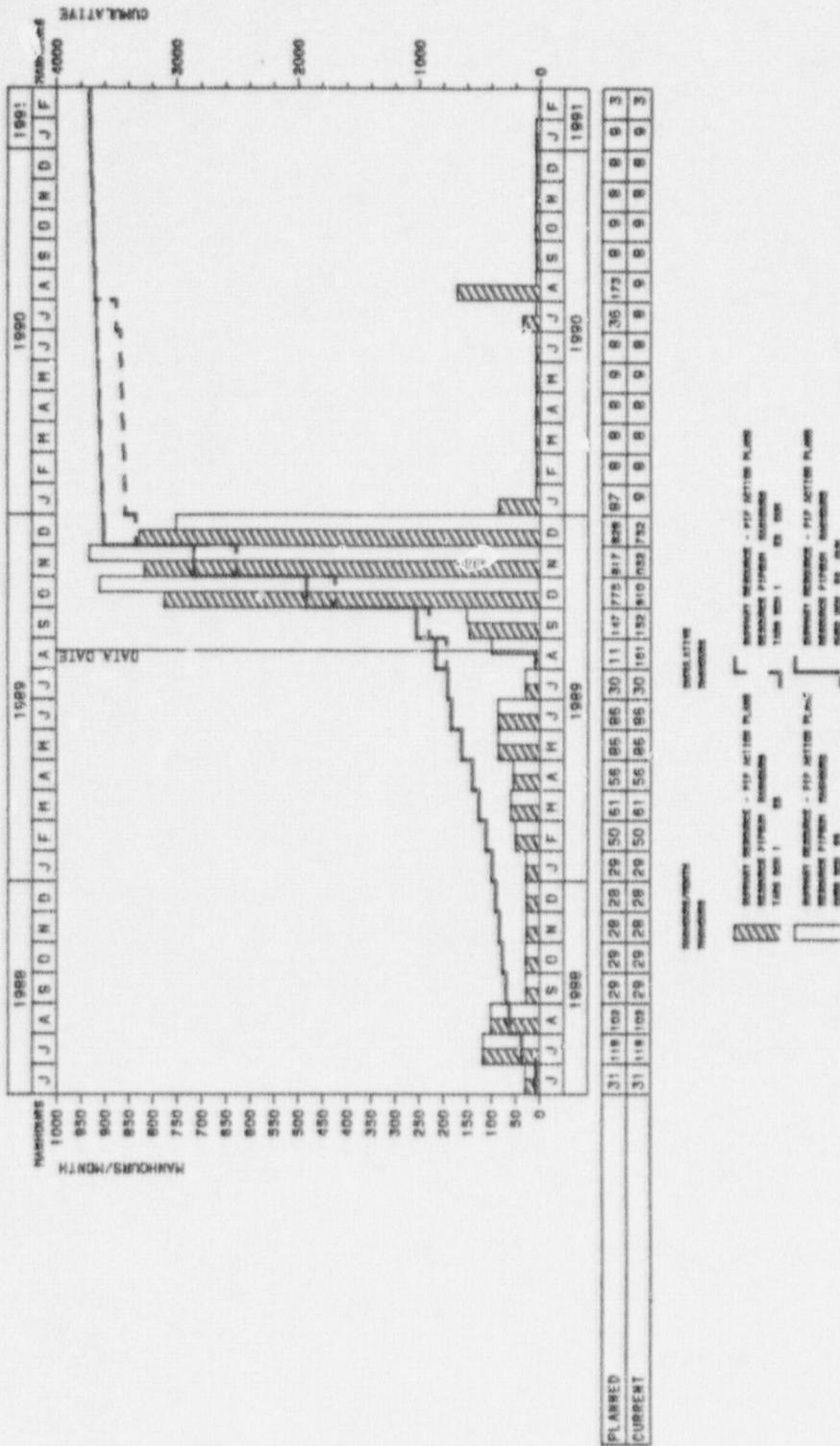
CALVERT CLIFFS NUCLEAR POWER PLANT
4.3.3 IMPROVEMENT PLAN
4.5.0 SAFETY ASSESSMENT



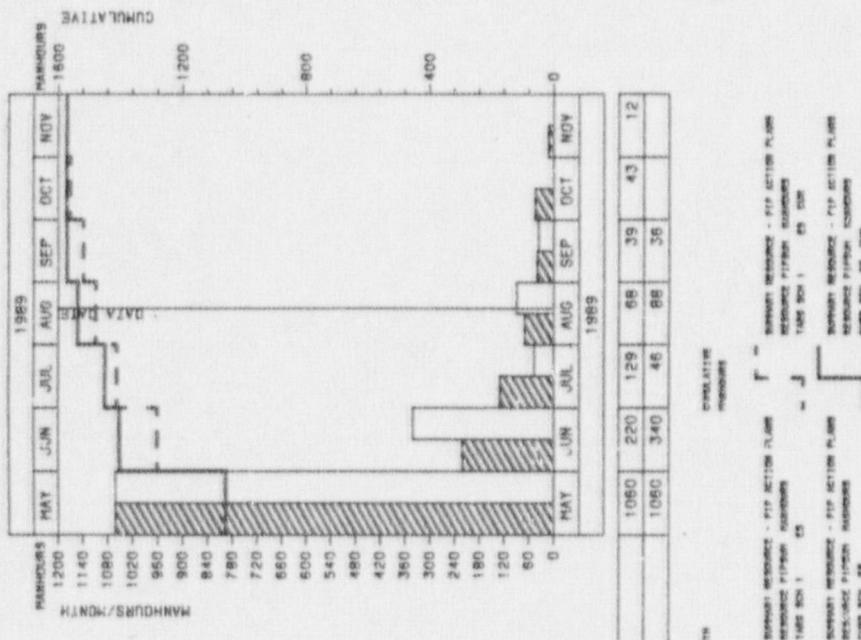
LEGEND

- [Hatched Bar] SUSTAINABLE - PIP 401190 PLANT
- [White Bar] REFERENCED PIPIN INSURANCE
- [White Bar] TIME NO. 1
- [Hatched Bar] SUSTAINABLE PIPIN INSURANCE
- [White Bar] TIME NO. 1
- [Hatched Bar] REFERENCED - PIP 401190 PLANT
- [White Bar] REFERENCED PIPIN INSURANCE
- [White Bar] TIME NO. 1
- [Hatched Bar] SUSTAINABLE - PIP 401190 PLANT
- [White Bar] REFERENCED PIPIN INSURANCE
- [White Bar] TIME NO. 1

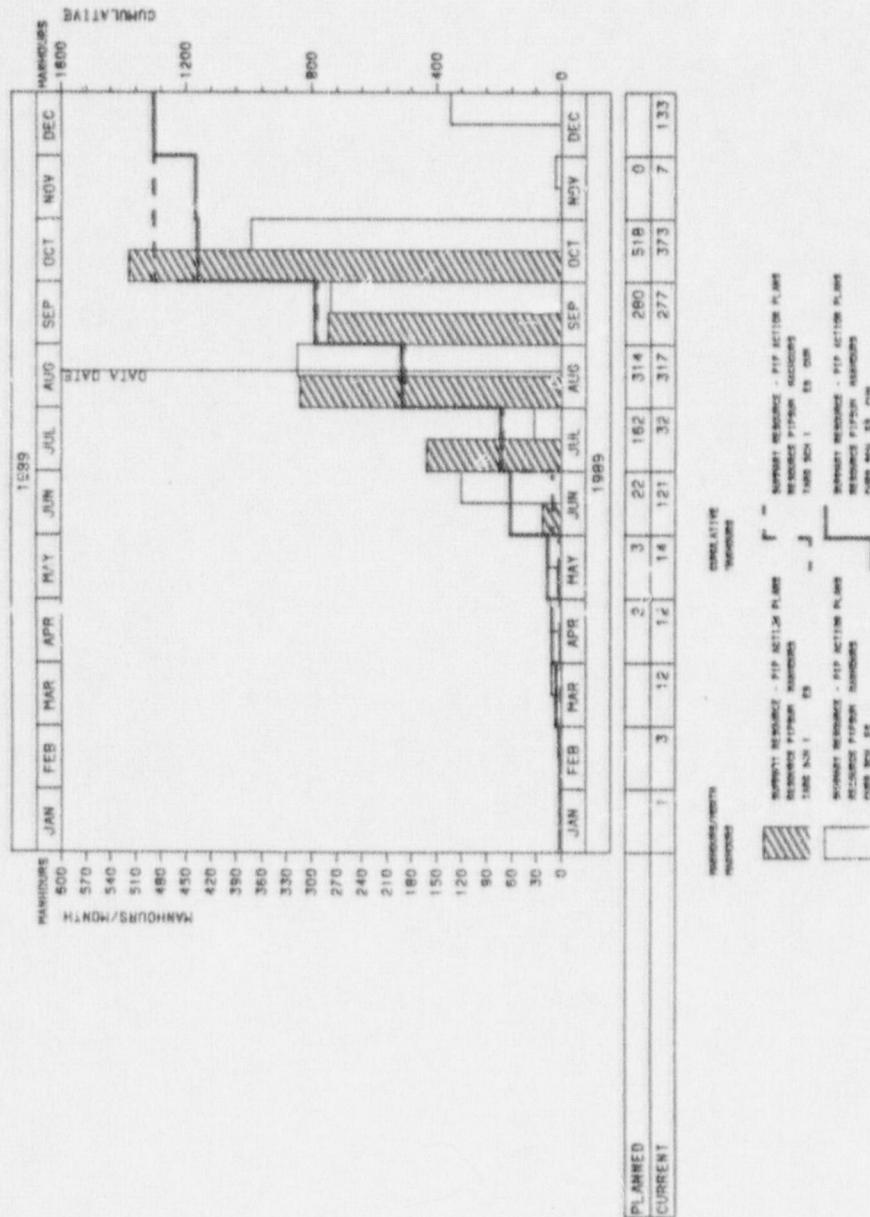
CALVERT CHASERS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
4.5.0 ROOT CAUSE ANALYSIS



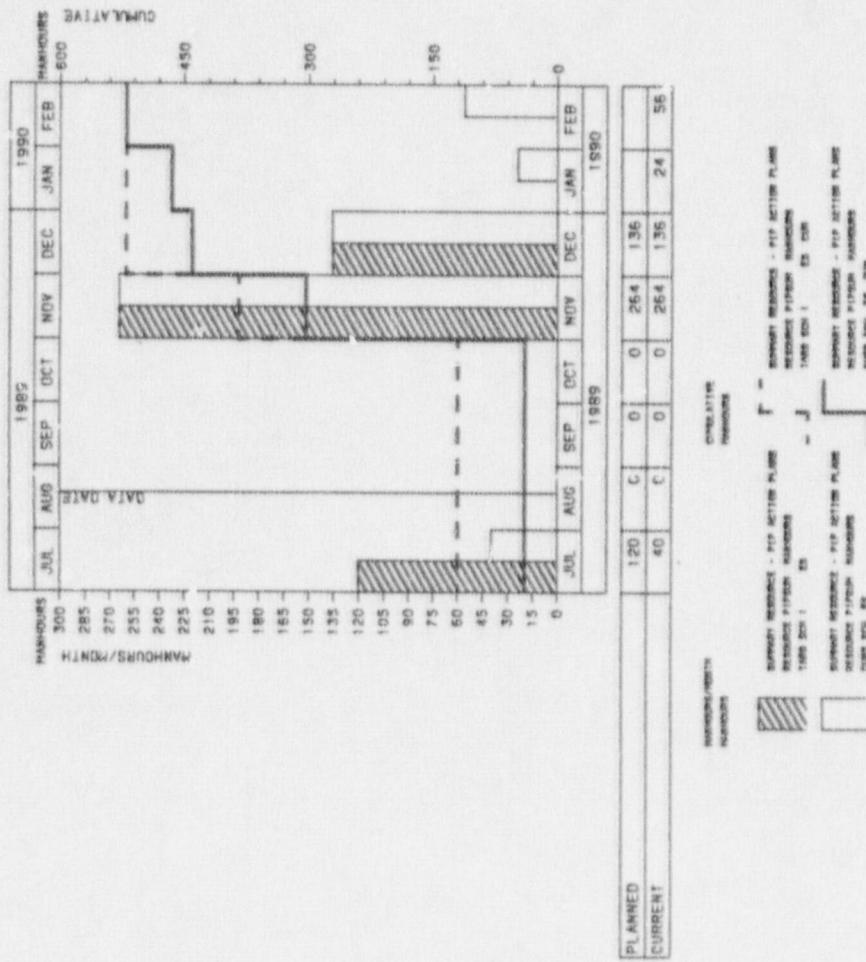
CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
4.7.0 FUSING



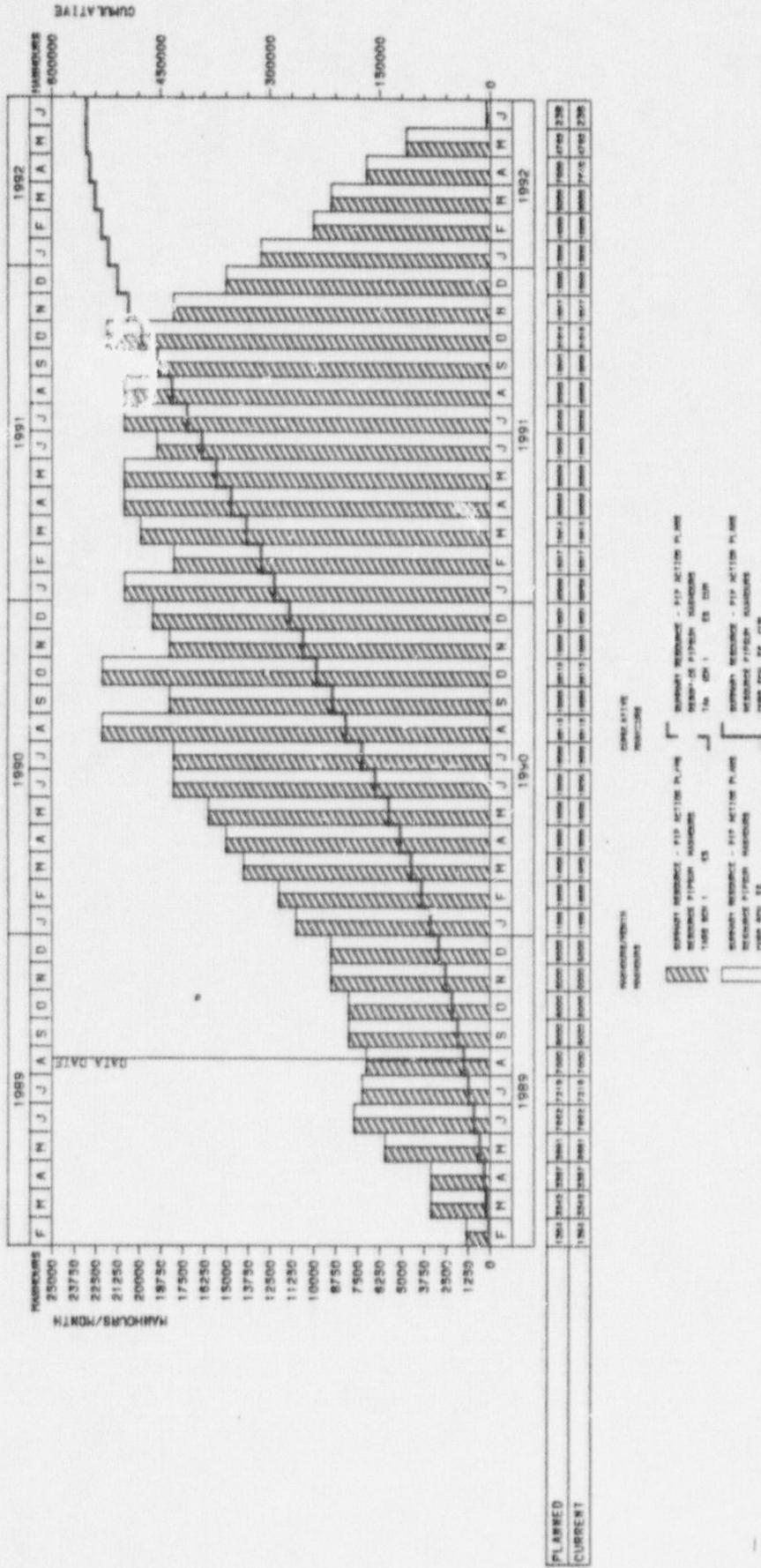
CALVERT CLIFFS NUCLEAR POWER PLANT
4.B.0 IMPROVEMENT PLAN
4.8.0 ISSRC



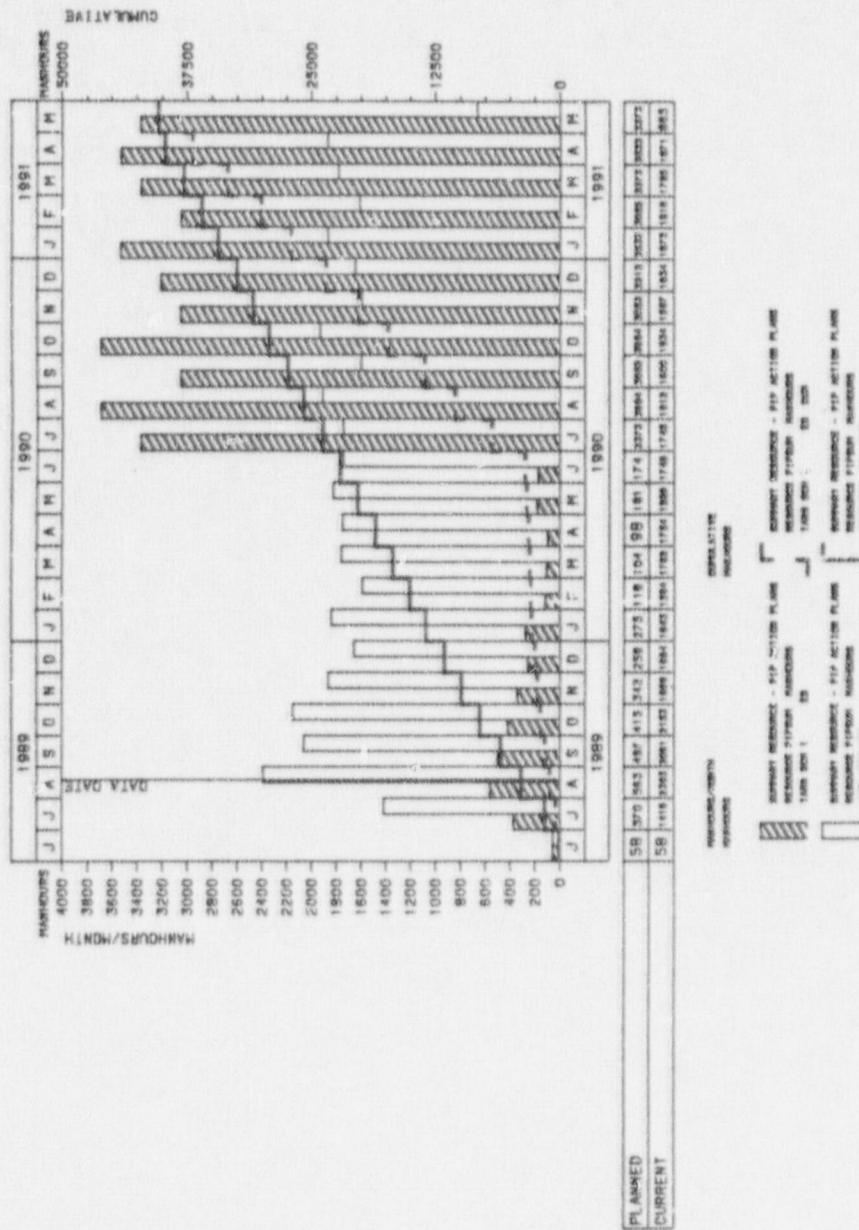
CALVERT CLIFFES NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLANS
4.9.0 VISITING OTHER PLANTS



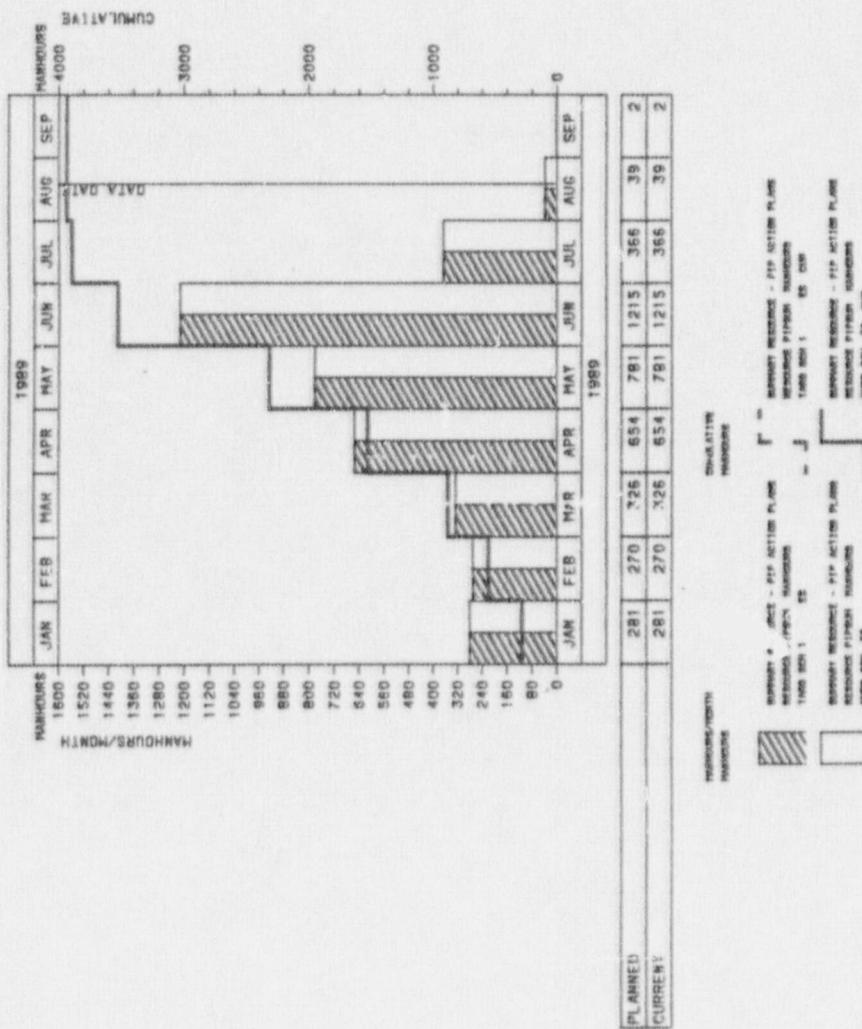
**CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
5.2.1 PROCEDURE UPGRADE PROGRAM**



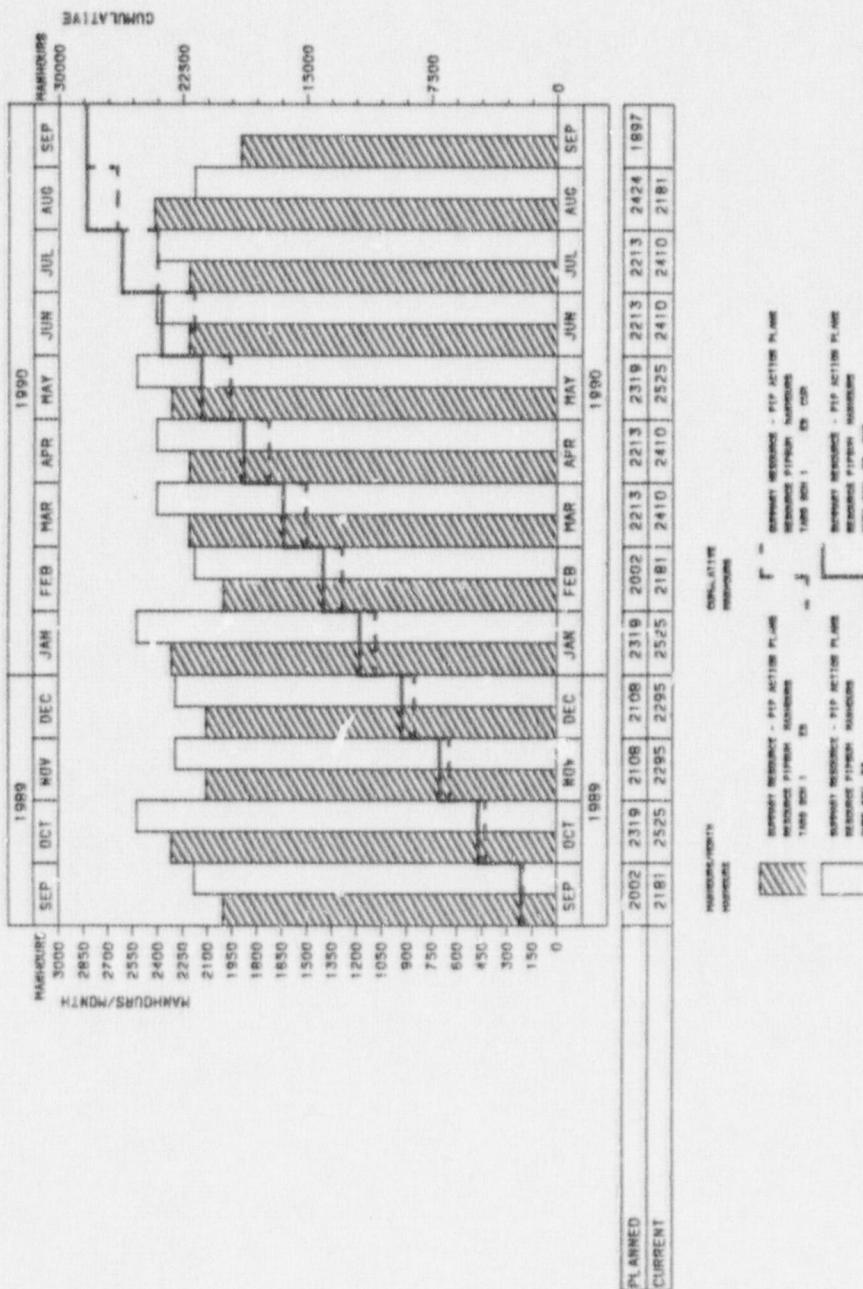
**CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE MONITORING
5.2 SURVEILLANCE TEST PROGRAM**



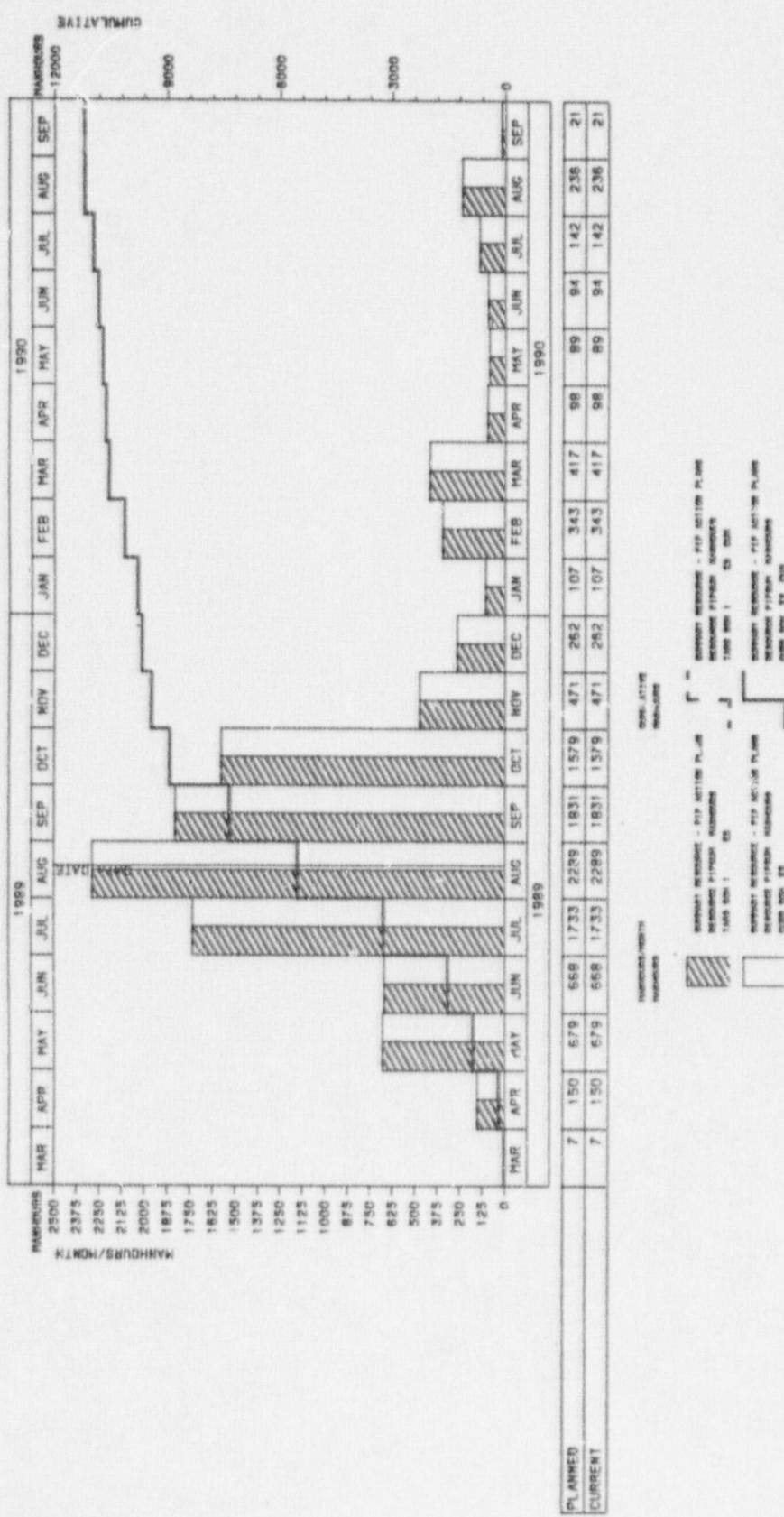
CALVERT CLIFFS NUCLEAR POWER PLANT
PERIODIC CHARGE UPKEEP TEST PLAN
5.2.3 POST MAINTENANCE TESTING



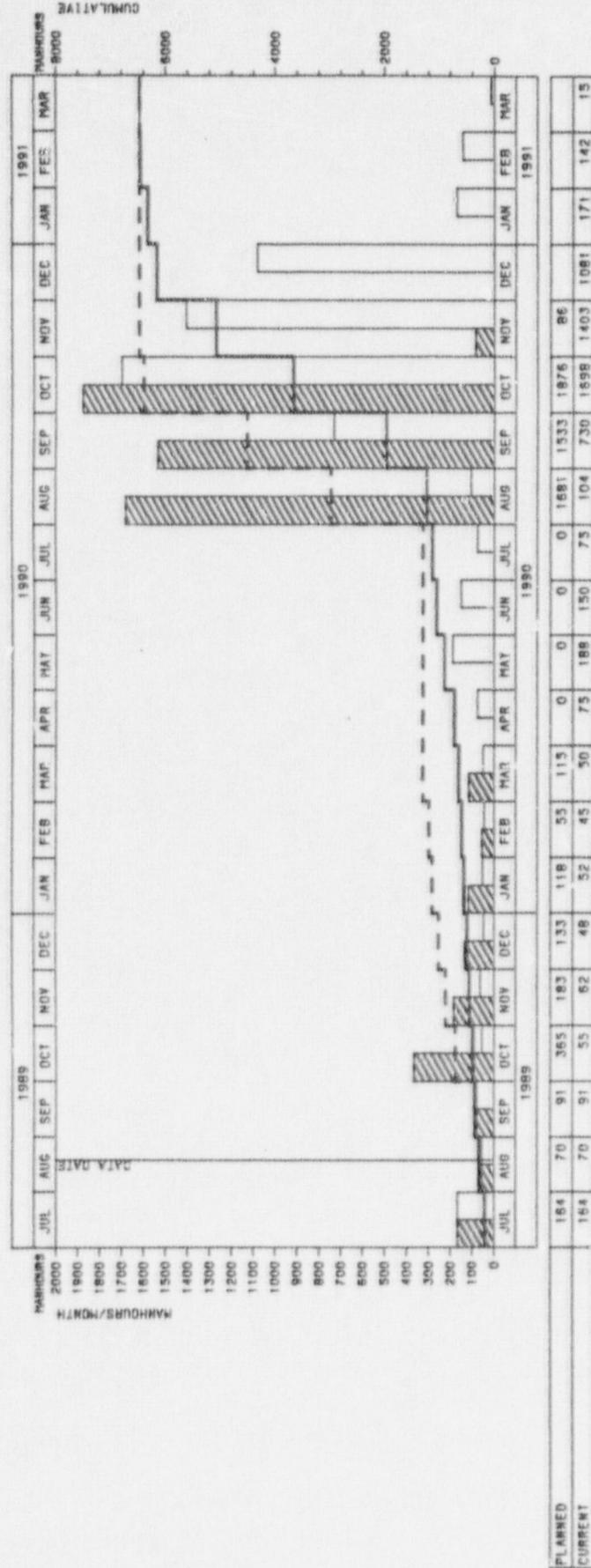
CALIFORNIA NUCLEAR POWER PLANT
5.3.1 PROCUREMENT PROGRAM PROJECT



CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE MONITORING PLAN
5.3.2 NIPS EQUIP DATABASE/MAIN FLNG SYSTEM

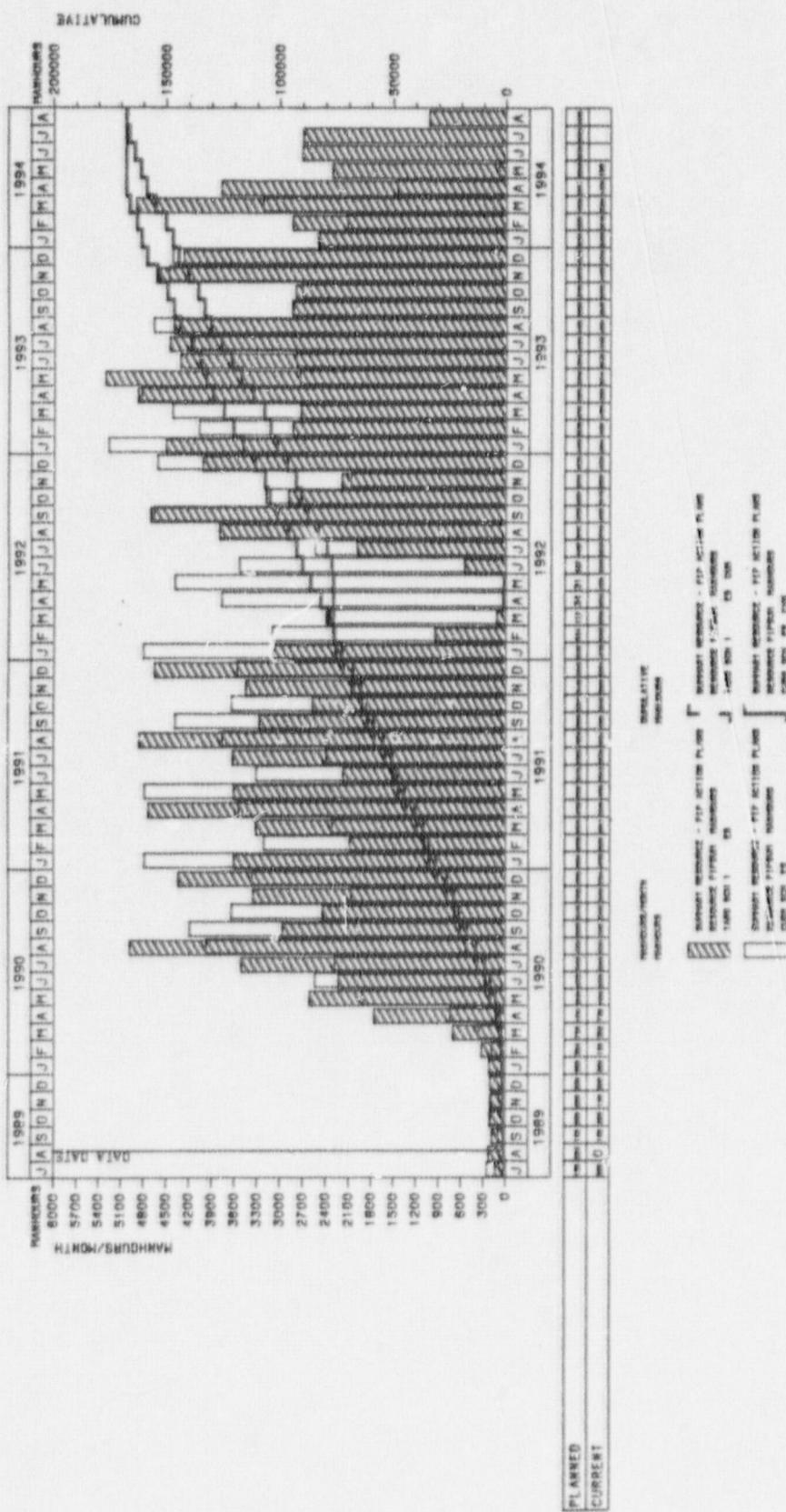


CALVER CLIFFS NUCLEAR POWER PLANT
S.3.3 TECHNICAL MANUAL IMPROVEMENTS

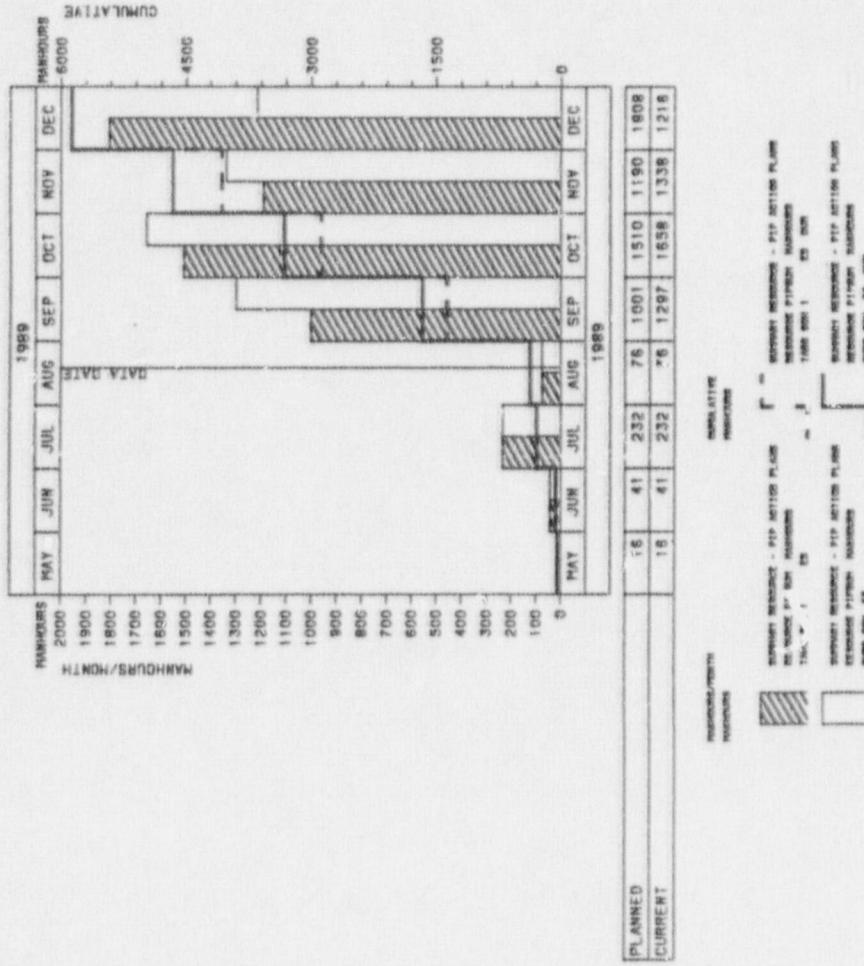


REVISION DATE: 10/01/1990
PROJECT NUMBER: 10000000000000000000

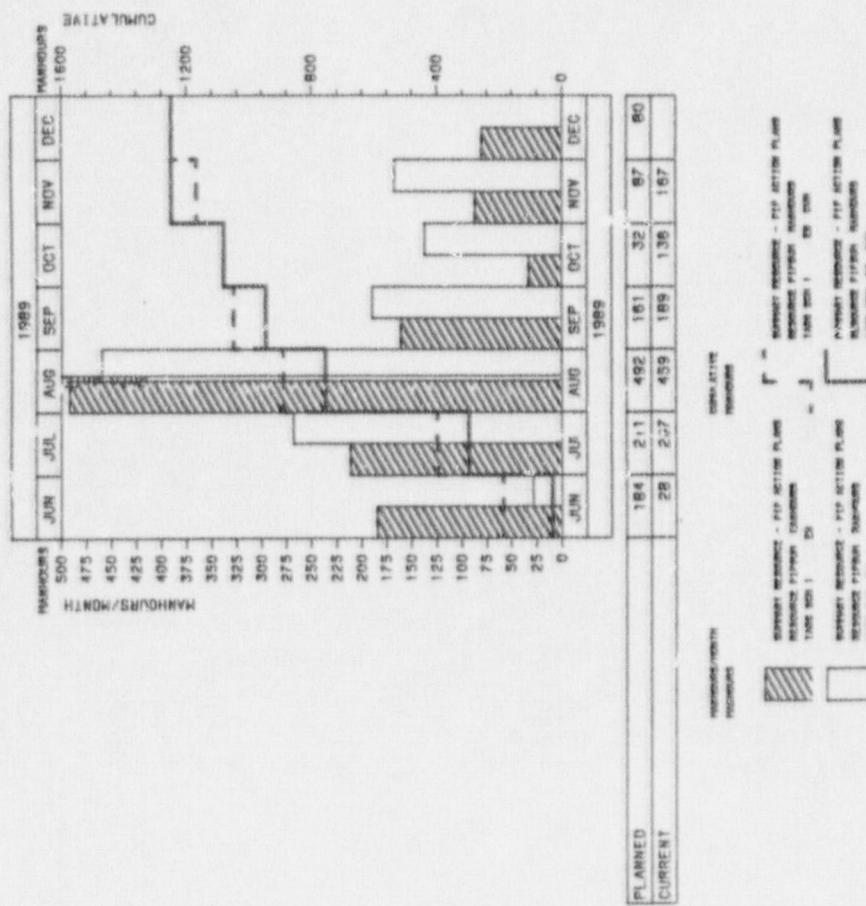
CALVERT CLIFFS NUCLEAR POWER PLANT
5.3.4 CONFIGURATION MANAGEMENT UNIT



CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
S.4.1 SYSTEM ENGINEER TRAINING



CALVERT CLIFFS NUCLEAR POWER PLANT
PERFORMANCE IMPROVEMENT PLAN
S.4.2 MINOR MODIFICATIONS



CALVERT CLIFFS NUCLEAR POWER PLANT
5.4.3 RELIABILITY CENTER MAINTENANCE

