




INDIAN POINT 2
SITE ENGINEERING
YEAR 2001 BUSINESS PLAN

John Ventosa
BUSINESS PLAN MANAGER


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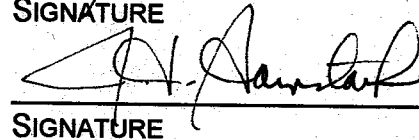
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Geoffrey Schwartz
CONCURRENCE


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12/15/00
DATE

J. BAUMSTARK
SENIOR MANAGEMENT SPONSOR


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12/15/00
DATE

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1. Business Plan Summary

SITE ENGINEERING

OVERVIEW: The Site Engineering Department consists of the Plant Engineering, System Engineering, Program Engineering and Test & Performance sections. The mission of Site Engineering is to ensure continuous improvement in plant equipment and system performance. Site Engineering will provide the technical leadership to support safe and reliable operation of Indian Point for the duration of the plant's license and to support life extension.

Plant Engineering will continue to focus on improving its effectiveness as the "Engineering FIN Team" by supporting Maintenance and Operations and completing the Mod Optimization Project.

System Engineering will continue to focus on system monitoring and improving both short- and long-term system health. System Engineering will also focus on improving its processes and tools for system engineering functions.

Engineering Programs will continue to focus on improving the station's Fire Protection, Environmental Qualification, Valve, Flow Accelerated Corrosion and Maintenance Rule Programs. The Programs section will perform assessments of the Inservice Inspection Program, which will be transferred from QA, and the Inservice Test and Snubber Programs, which will be transferred from Test & Performance.

The Test & Performance section will continue the transition to an equipment reliability focus. The effectiveness of Predictive Maintenance, Preventive Maintenance and Station Performance Monitoring will be improved.

GOALS:

- ◆ Improve system and equipment reliability and availability
- ◆ Reduce station backlog through the reduction of Site Engineering backlogs in corrective actions and work orders
- ◆ Complete upgrades of Fire Protection and Environmental Qualification Programs to position programs as industry leaders
- ◆ Provide quality training to ensure individual as well as station growth

EXPECTED 2000 RESULTS:

- ◆ Reduce CR backlog to less than 180 items
- ◆ Reduce Engineering Hold Work Orders (non outage) to less than 50
- ◆ Complete all scheduled Maintenance Rule A.1 SSC corrective actions
- ◆ Ensure no repeat Maintenance Rule A.1 SSCs
- ◆ Ensure no Maintenance Rule SSCs in A.1 status greater than 24 months
- ◆ Ensure the total Maintenance Rule SSCs in A.1 category is less than 5
- ◆ Provide a minimum of 16 hours of quality position specific training to all Site Engineering sections
- ◆ Provide all orientation and task qualification training
- ◆ Implement Equipment Reliability Assessment Improvement Plan

2. Action Plans

System Engineering

GOAL	ACTIONS	OWNER	COMPLETION DATE	STATUS
Develop/Implement System Long Range Strategic Plan	Benchmark System, Structure and Component (SSC) Long Range Strategic Planning Effort	Ventosa	February 23, 2001	
	Develop IP2 SSC Long Range Strategic Planning Standard	Ventosa	March 30, 2001	
	Produce Long Range Strategic Plan for each Level 1 System	Ventosa	June 29, 2001	
Implement System Teams	Establish Team Members from System Engineering, Operations and Maintenance for all Level 1 Systems	Ventosa Ferrick Poirier	January 12, 2001	
	Develop Roles and Expectations for Team Members	Ventosa	January 12, 2001	
	Implement System Teams for Level 1 Systems	Ventosa	April 27, 2001	
Enhance System Health Focus	Provide/Implement Guidance to ensure Focus during System Health on Preventative, Predictive Maintenance, System Monitoring, Design Basis, etc.	Ventosa	March 23,2000	
Improve Operability Determination Process	Benchmark Operability Determination Process	Ventosa	April 27, 2001	
	Establish Operability Determination Program Manager	Ventosa	May 15,2001	
System Description Upgrade	Complete Upgrade of System Descriptions	McCaffrey	June 29, 2001	

Enhance Post Trip Review Team Procedure	Provide Guidance to Ensure Adequate Technical Support for Post Trip Review	Vasely	February 2,2001	
Troubleshooting SAO	Benchmark Industry for Troubleshooting Procedures	Barlok	June 29,2001	
	Implement & Training on Troubleshooting SAO	Barlok	October 19, 2001	

Programs Section - Surveillance Test Group

GOAL	ACTIONS	OWNER	COMPLETION DATE	STATUS
Upgrade Test Procedures	Complete Category 1 Surveillance Test Procedure upgrade (Online tests up to Monthly frequency)	P. O'Brien	May 15, 2001	
	Complete Category 2 Surveillance Test Procedure upgrade (Remaining Online tests)	P. O'Brien	November 7, 2001	
Complete Administrative Changes	Complete changes to Administrative Changes to procedures to reflect the transfer of Surveillance Test responsibilities to Programs Section	P. O'Brien	April 16, 2001	

Programs Section - Equipment Reliability Group

GOAL	ACTIONS	OWNER	COMPLETION DATE	STATUS
Establish Equipment Reliability Group	Establish Engineering portion of new Equipment Reliability Group to support Maintenance Rule: Unit Performance Valve Programs PDM/PM Programs	M. Walther	March 30, 2001	
	Establish Technician portion of new Equipment Reliability Group to be comprised of: Supervisor of Technicians Technicians (transferred from former Test & Performance Section)	M. Walther	March 30, 2001	

GOAL	ACTIONS	OWNER	COMPLETION DATE	STATUS
Improve Environmental Qualification (EQ) Program Implementing Industry Standard EPRI EQ Management System	Submit technical proposal to development of 20 Generic Qualifications and 40 Plant Qualification Evaluations.	Bokhari	February 1, 2001	
	Evaluate responses from above proposals.	Bokhari	March 30, 2001	
	Perform technical acceptance reviews of 20 Generic Qualification Evaluations and 40 Plant Qualification Evaluations.	Bokhari	December 21, 2001	

Programs Section – Fire Protection

GOAL	ACTIONS	OWNER	COMPLETION DATE	STATUS
Improve Fire Protection Program Design Basis Documentation	Description: <ul style="list-style-type: none"> ▪ Triennial Inspection Readiness Project ▪ Ensure all ongoing improvement projects and outstanding Corrective Actions are "mapped" to the appropriate element of the Fire Protection Program ▪ Ensure the IP2 Program documentation and implementation is in compliance with regulatory requirements and licensing commitments ▪ Ensure the IP2 personnel are prepared for the NRC Triennial Inspection 	G. Dahl	March 23, 2001	
	Prepare technical proposal to accomplish the following improvement: <ul style="list-style-type: none"> ▪ (Integrate safe shutdown circuits into Wire and Raceway System (WARS)) ▪ Verify the adequacy of the Fire Protection surveillance program ▪ Develop hydraulic calculations for Fire Protection systems that are identified in Phase II of the project ▪ (Validate the Fire Protection system configurations are consistent with Codes of Record (Extension of Phase II project)) 			
	Evaluate technical proposals received from above proposal.	G. Dahl	April 27, 2001	
	Perform technical acceptance reviews for completed design basis reviews and calculations.	G. Dahl	December 21, 2001	

Predictive Maintenance Program

GOAL	ACTIONS	OWNER	COMPLETION DATE	STATUS
Improve the reliability and performance of equipment by strengthening the Predictive Maintenance program.	Establish and populate a plant equipment database that stores and trends predictive maintenance data and is available to all station personnel.	Ventosa	August 31, 2001	
	Expand the scope of the current program to include more equipment and to incorporate other predictive technologies.	Ventosa	December 14, 2001	
	Develop procedures for predictive maintenance activities.	Ventosa	June 29, 2001	
	Upgrade software for vibration data and thermographic image analysis.	Ventosa	March 30, 2001	
	Establish an in-house oil analysis program.	Ventosa	December 14, 2001	
	Provide training and obtain certification for predictive maintenance technologies.	Ventosa	December 14, 2001	

PM Optimization

GOAL	ACTIONS	OWNER	COMPLETION DATE	STATUS
To improve system and equipment reliability through the optimization of the station Preventive Maintenance Program.	Establish a database for the creation and storage of preventive maintenance tasks and technical bases	Ventosa	May 5, 2001	
	Identify existing I&C PM's and create PM task sheets that includes basis, scope, and frequency.	Ventosa	September 3, 2001	
	Perform a systematic review of PM tasks utilizing EPRI-NMAC templates, equipment history, predictive maintenance, OE, etc. Populate PM database with revised/reviewed PM tasks.	Ventosa	December 21, 2001	
	Establish a systematic review of corrective maintenance for potential changes in the PM task and frequencies.	Ventosa	December 21, 2001	
	Establish and implement a plan to widely communicate the purpose and goals of a living PM program to station personnel.	Ventosa	April 2, 2001	
	Reinforce and monitor the expectations for maintenance workers to document the as-found equipment condition and the specific work performed during preventive and corrective maintenance, and develop a method to routinely distribute this information to engineering for the evaluation of PM adequacy.	Poirier	March 4, 2001	

3. 2001 Budget Request, SITE ENGINEERING

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
Human Resources													
Management													
Weekly													
Summer/COOP													
Subtotal													
Overtime (Hours)													
O & M (\$000)													
Management													
Comp													
Weekly													
Overtime													
Sub Total Labor													
Vendor Services													
Fire Protection													
MOV Services													
AOV Services													
Dues/Subscriptions													
Failure Analysis													
Benchmarking/Training													
Life Cycle Monitoring													
Engineering Services													
All Other													
Labor Support													
Calibrations													
PDM													
Ventilation Testing													
Contractor Support													
All Other Testing													
Surv Test Prog Upgrade													
Prevent. Mtce. Opt.													
EQ Program													
Sub Total Vendor Svcs													
All Other													
Petty Cash													
Sub Total All Other													
Total Non Outage													
Outage													
Grand Total, Site Engr													

4. Project Requests

The following Projects and Programs are being planned in 2001

Item	Project/Program Title	Estimated Con Ed Hours	Estimated Outside Support
4.1	Environmental Qualification Program Improvements	1,000	
4.2	Phase III Fire Protection Improvement Plan	2,000	
4.3	Preventive Maintenance Optimization	3,720	
4.4	Surveillance Testing Procedure Improvement Program	4,368	
4.5	Tech Spec Improvement Project	1,500	
Total Estimated Con Ed Person Hours		12,588	
Total Estimated outside Support			

* Not included in the total. See Project Request, Notes

Indian Point 2
2001 Project Request

1) Title: Environmental Qualification Program Improvements					2) Project #: 4.1					
3) Description: Continue the Indian Point Unit 2's EQ Program upgrade, this will complete the implementation of the EPRI EQ Management System. This upgrade will re-evaluate each EQ component and re-perform all EQ related calculations using current materials data.										
4) Justification: This will assure that previously used conservation assumptions on a material's properties will now use the actual material's properties data to maximize qualified lives of components. An additional 20 Generic Qualification Evaluations (GQEs) and 40 Plant Qualification Evaluations (PGEs) will be completed by the end of year 2001.										
5) Indian Point 2 Goals and Strategies Supported:										
6) Budget:										
Dept	Account	2000 + Prior		2001		2002 + Future		Project Total		
		Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	
Site Engr				1,000		500				
	TOTALS:			1,000		500				
7) Lead Department: Site Engineering					8) O & M: X XM:					Capital:
9) Proposed By:						Date:				
10) Lead Dept. Mgr. Approval:						Date:				
11) 2000 Budget Approval By:						Date:				
12) Notes:										

Indian Point 2
2001 Project Request

1) Title: Phase III Fire Protection Improvement Plan	2) Project #: 4.2									
Description: Triennial Inspection Readiness Project Ensure all ongoing improvement projects and outstanding Corrective Actions are "mapped" to the appropriate element of the Fire Protection Program Ensure the IP2 Program documentation and implementation is in compliance with regulatory requirements and licensing commitments Ensure the IP2 personnel are prepared for the NRC Triennial Inspection Prepare technical proposal to accomplish the following improvement: (Integrate safe shutdown circuits into Wire and Raceway System (WARS)) Verify the adequacy of the Fire Protection surveillance program Develop hydraulic calculations for Fire Protection systems that are identified in Phase II of the project (Validate the Fire Protection system configurations are consistent with Codes of Record (Extension of Phase II project))										
4) Justification: To improve Indian Point II Fire Protection Program design basis documentation and compliance with NRC regulations.										
5) Indian Point 2 Goals Supported:.										
Budget:										
		2000 + Prior	2001	2002 + Future	Project Total					
Dept	Account	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	
Site Engr				2,000						
	TOTALS:			2,000						
7) Lead Department: Site Engineering					8) O & M: X XM:					Capital:
9) Proposed By:							Date:			
10) Lead Dept. Mgr. Approval:							Date:			
11) 2000 Budget Approval By:							Date:			
12) Notes:										

Indian Point 2
2001 Project Request

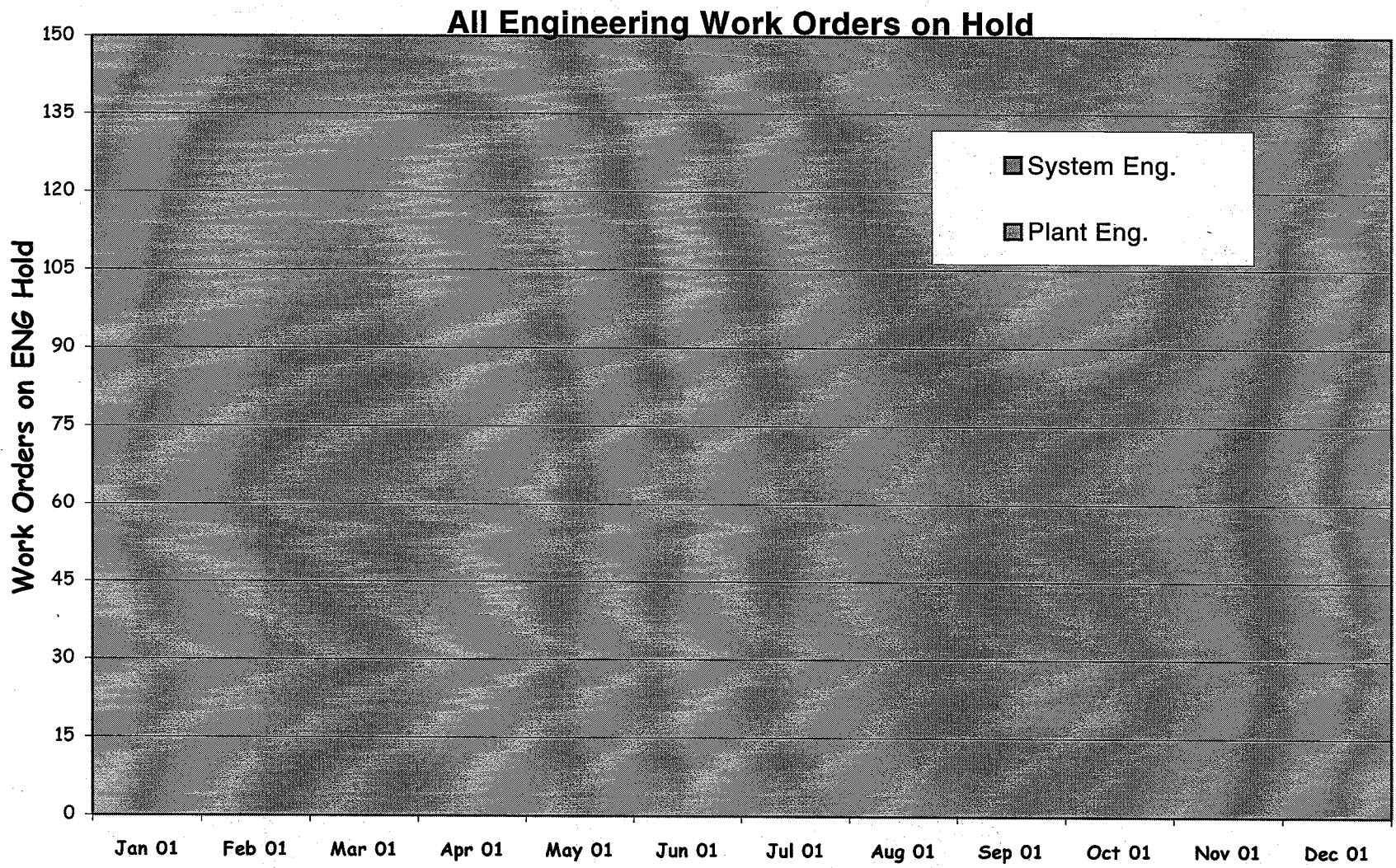
1) Title: Preventive Maintenance Optimization					2) Project #: 4.3				
3) Description: To optimize the preventive maintenance program by: <ul style="list-style-type: none"> ▪ Developing templates for PM tasks based on EPRI guidance ▪ Establishing a database for preventive maintenance ▪ Reviewing PM's on a component/system basis and developing PM tasks sheets/technical basis 									
4) Justification: To improve the reliability and availability of plant equipment and systems by improving the effectiveness of the preventive maintenance program.									
5) Indian Point 2 Goals Supported:									
6) Budget:									
Dept	Account	2000 + Prior		2001		2002 + Future		Project Total	
		Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)
Site Engr Maint				3,720					
	TOTALS:			3,720					
7) Lead Department: Site Engineering					8) O & M: X Capital: XM:				
9) Proposed By					Date:				
10) Lead Dept. Mgr. Approval:					Date:				
11) 2000 Budget Approval By:					Date:				
12) Notes:									

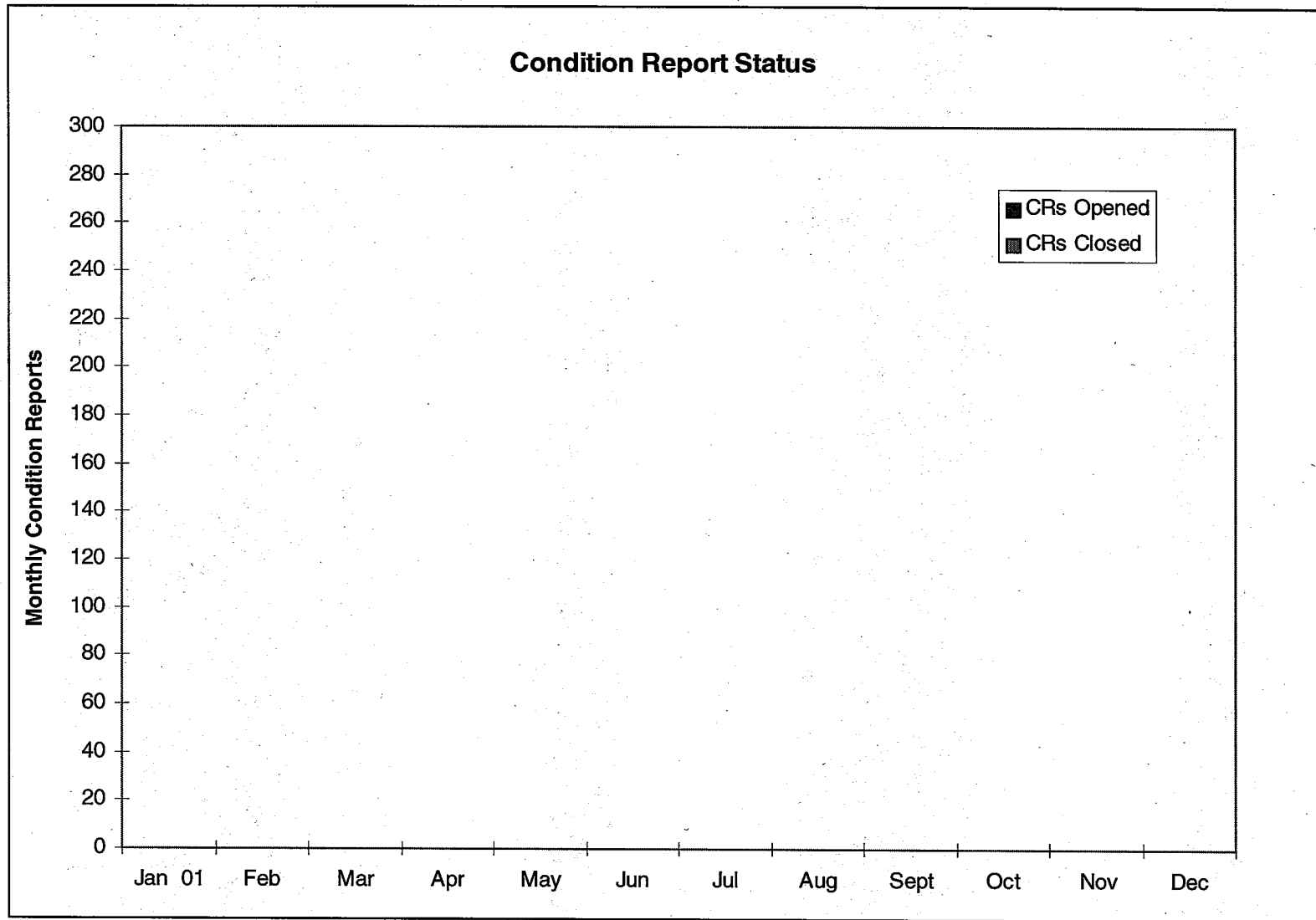
Indian Point 2
2001 Project Request

1) Title: Surveillance Testing Procedure Improvement Program					2) Project #: 4.4				
3) Description: Continue to improve the quality of the Surveillance Testing Procedures to satisfy Station and Industry increasing standards.									
4) Justification: The Surveillance Procedure format has been recently enhanced and incorporated into the Refueling Procedures issued during the 2000RFO. This was the initial phase of a project to enhance ALL Surveillance Test Procedures. When ALL Surveillance Procedures have undergone the enhancement process they will be maintained by existing staff and the need for contractor support will be eliminated. The remaining scope of work for this Program is as follows: <ol style="list-style-type: none"> 1. Complete format upgrade of ALL non-outage test procedures. 2. Incorporation of ALL 2000RFO TPC's and test comments to ensure that the outage procedures are available for immediate use during the SGR Outage. 3. Reduction of the 150 existing Condition Reports in conjunction with the test revisions. 4. Reduction of the backlog of Communications To Staff in conjunction with the test revisions. 5. Incorporation of the 50.54f comments into the applicable test procedures. 									
5) Indian Point 2 Goals Supported:									
6) Budget:									
Dept	Account	2000 + Prior		2001		2001 + Future		Project Total	
		Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)	Con Ed Hrs.	Outside \$s (000)
Site Engr				4,368		1,456			
	TOTALS:			4,368		1,456			
7) Lead Department: Site Engineering					8) O & M: X Capital: XM:				
9) Proposed By						Date:			
10) Lead Dept. Mgr. Approval:						Date:			
11) 2000 Budget Approval By:						Date:			
12) Notes:									

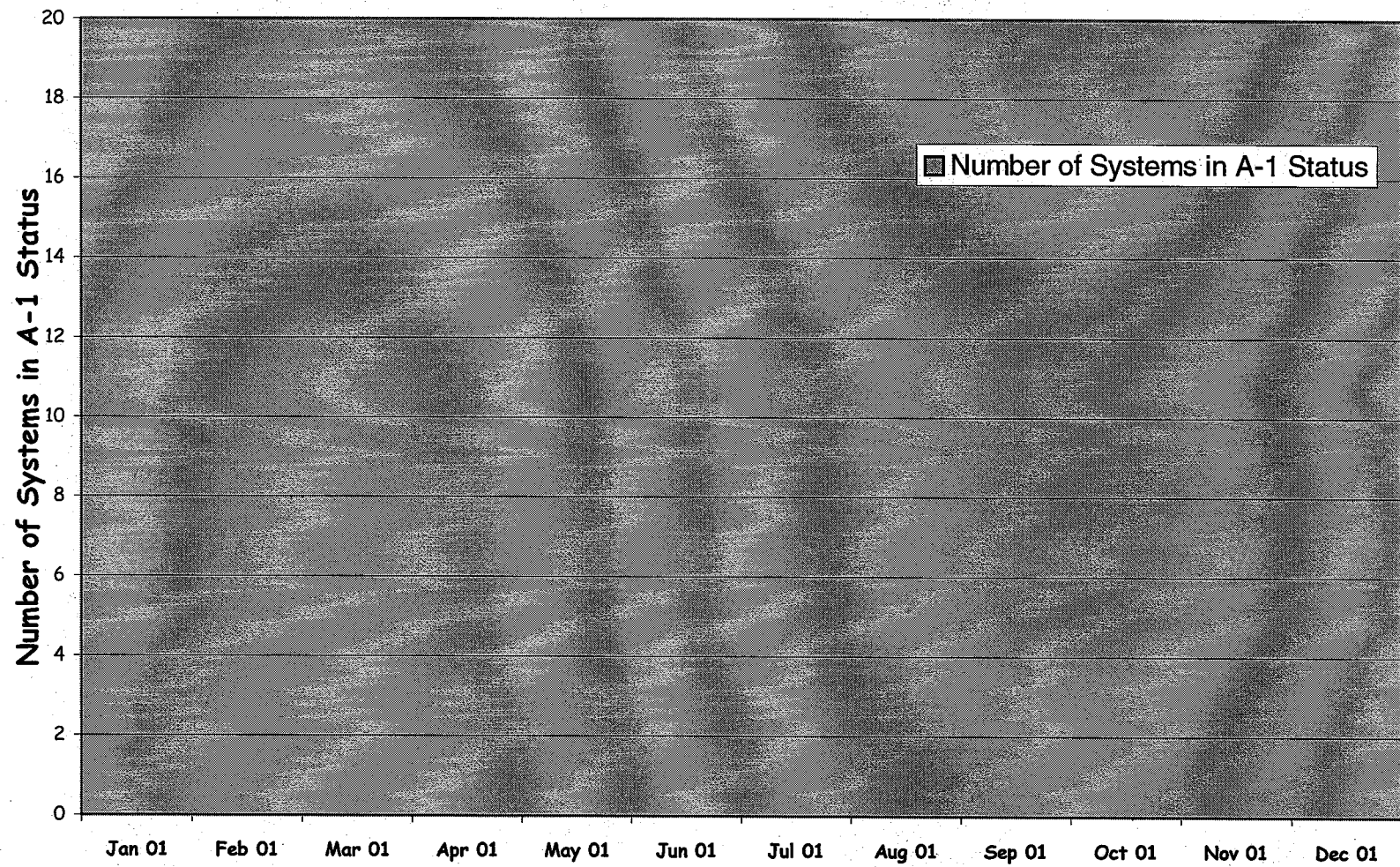
5. Performance Measures

- Engineering Work Orders on Hold
- Corrective Action Program Actions
- Maintenance rule Indictors
 - Number of Systems in A-1 Status
 - Average Age of SSC's in A-1 Status
- SSC Long Range Strategic Plans Complete
- Number of Surveillance Test Procedures Upgrade
- Number of EQ Generic Quals and Plant Quals Complete
- Fire Protection Program Upgrade Schedule Adherence
- Preventive Maintenance Templates Completed

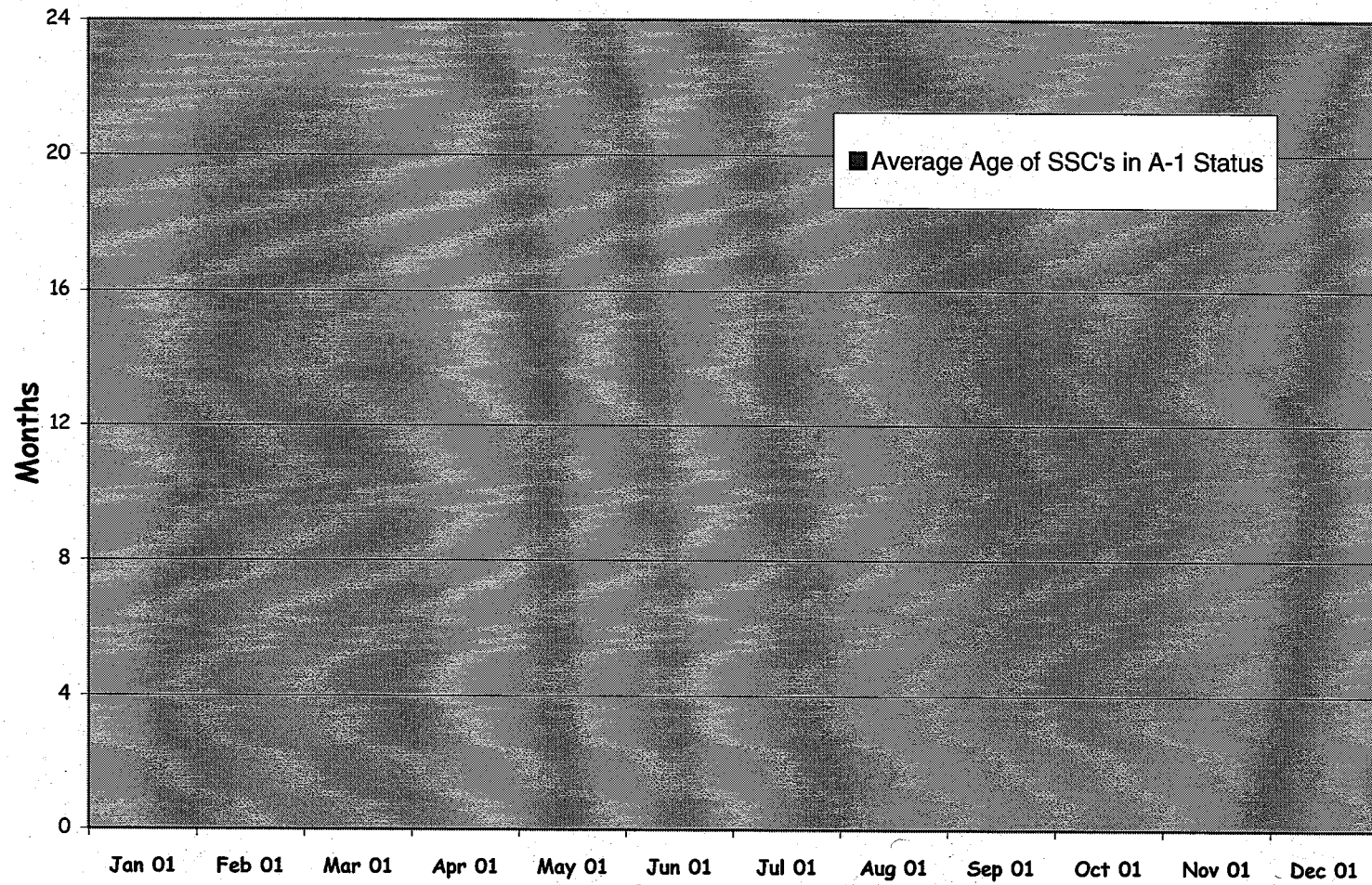


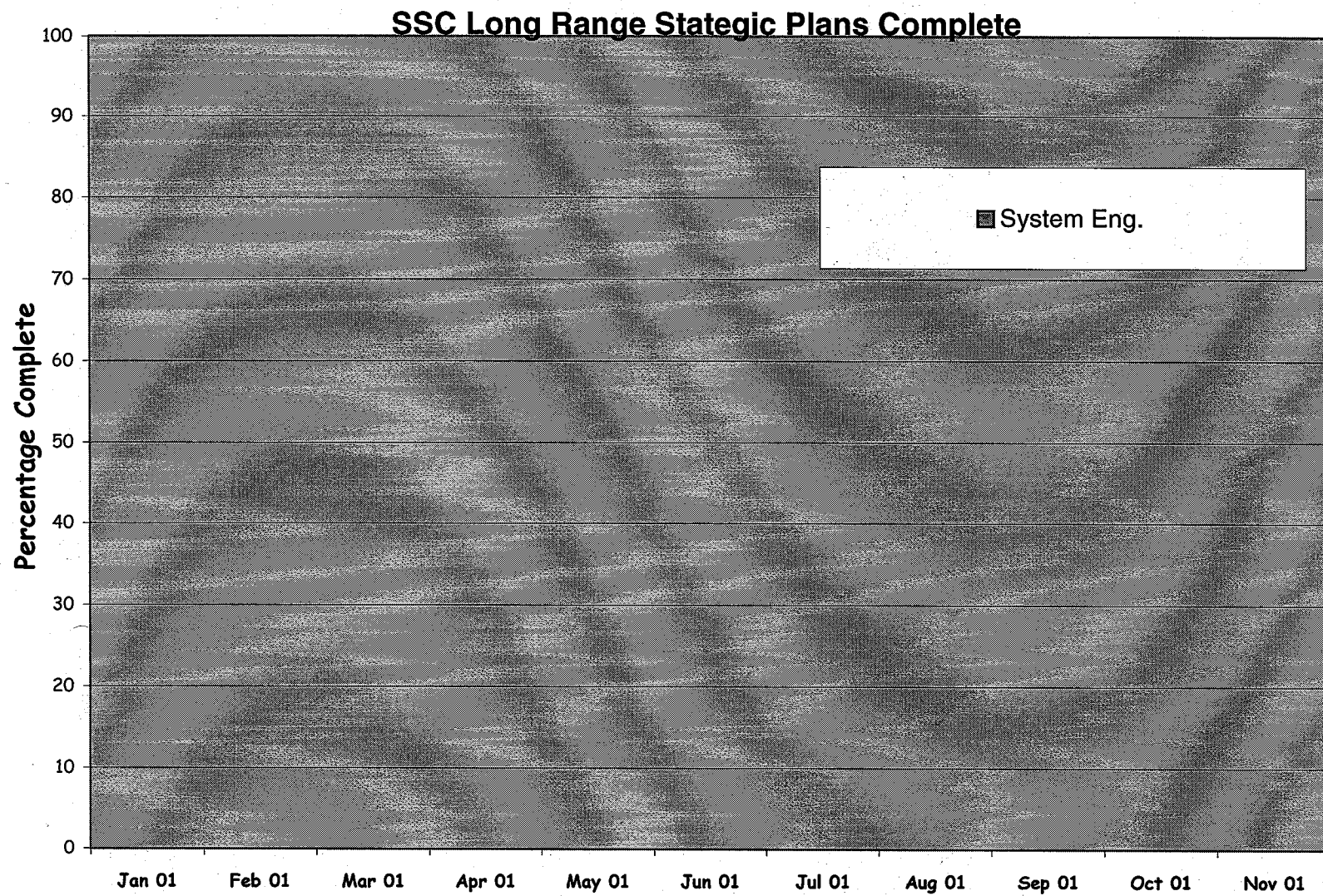


Maintenance Rule Indicators

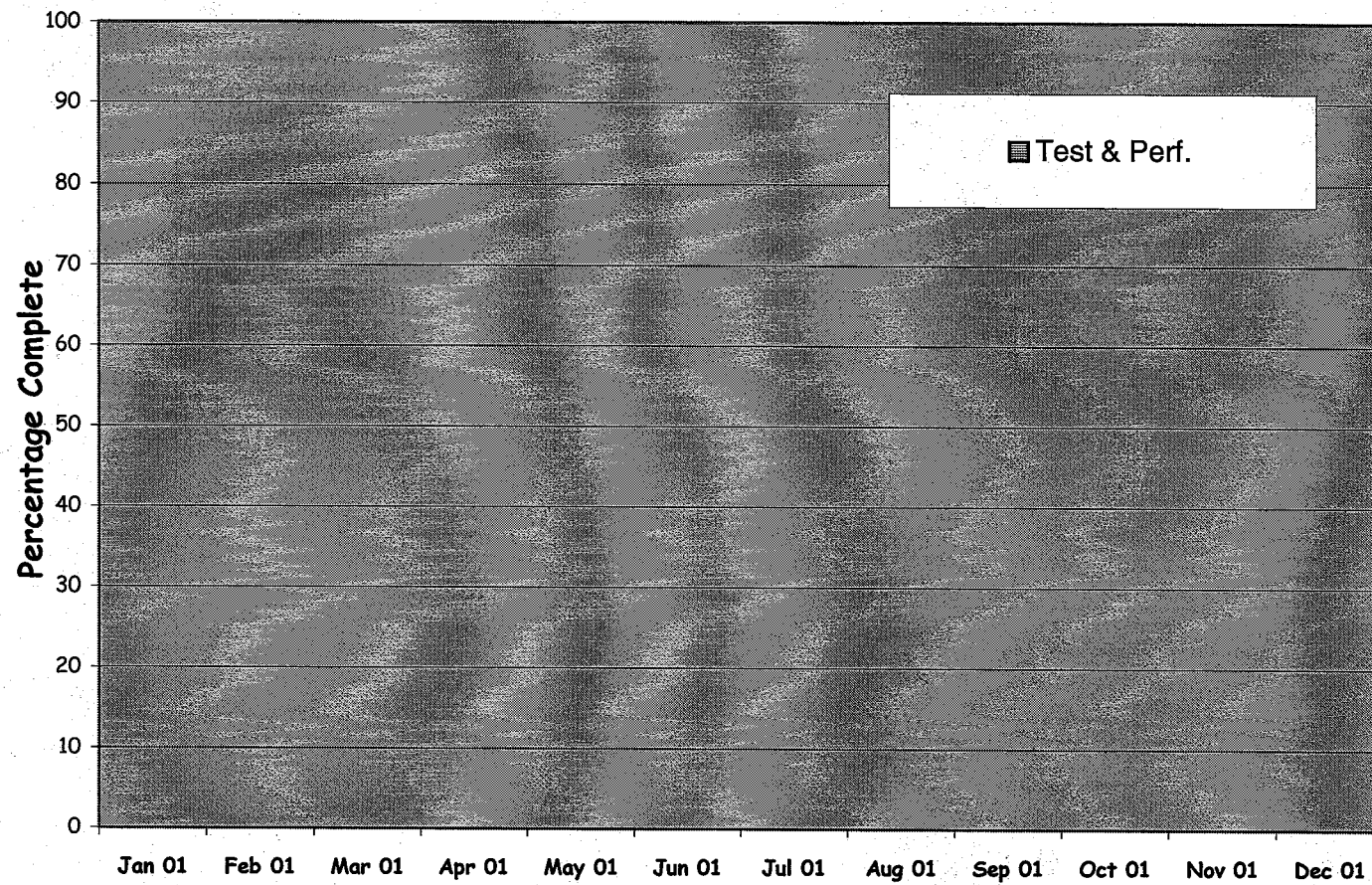


Maintenance Rule Indicators

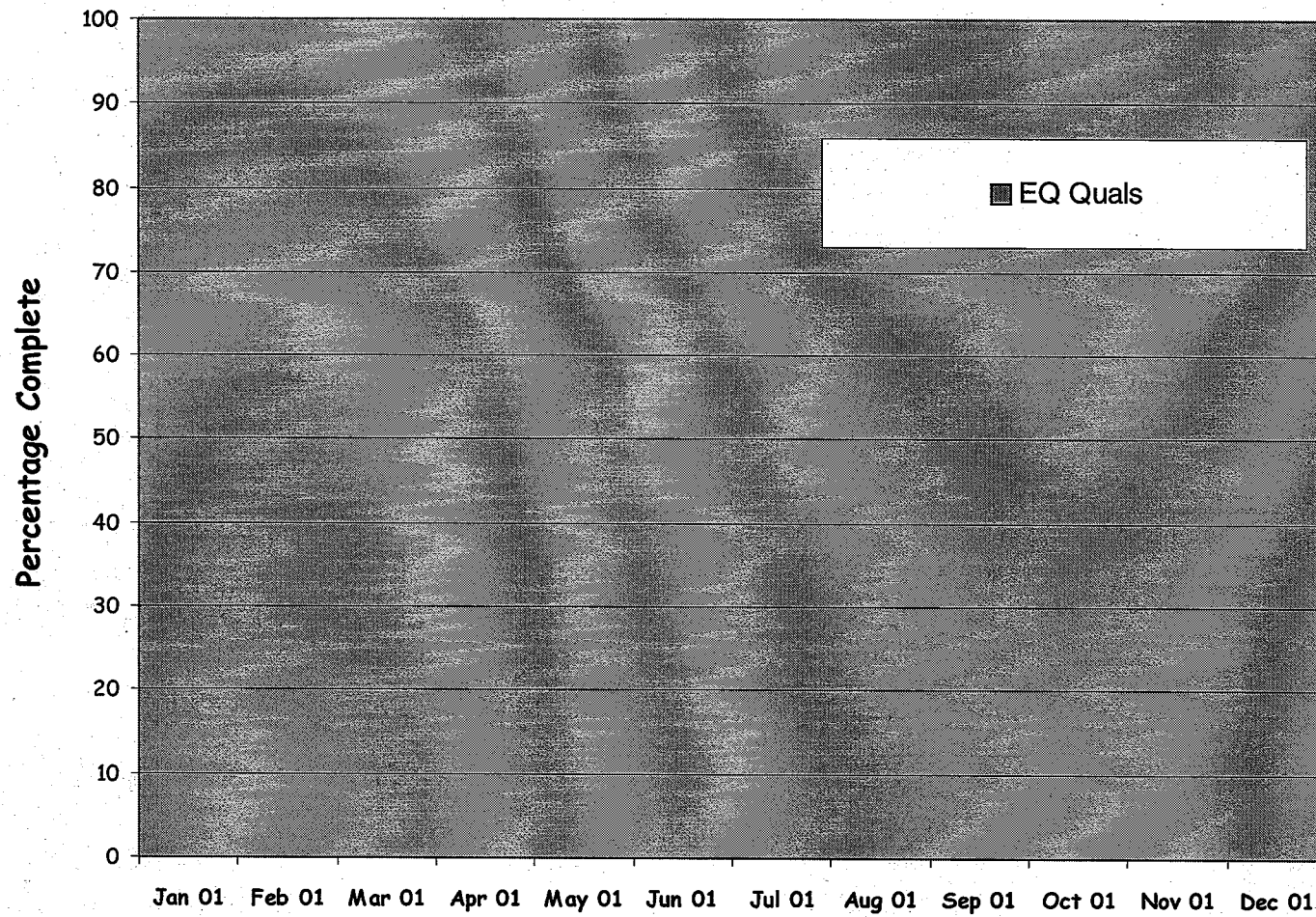




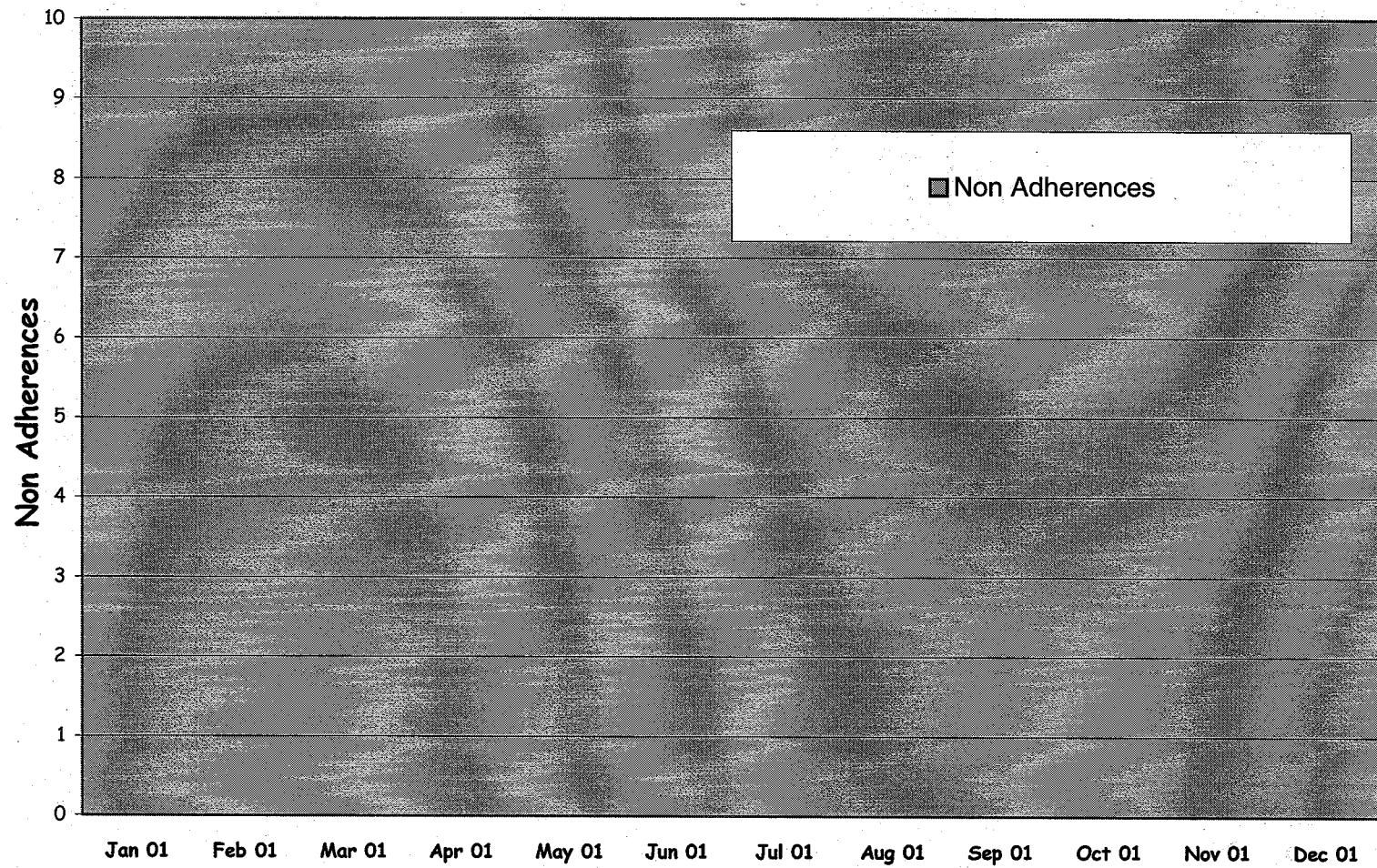
Number of Surveillance Test Procedure Upgrade



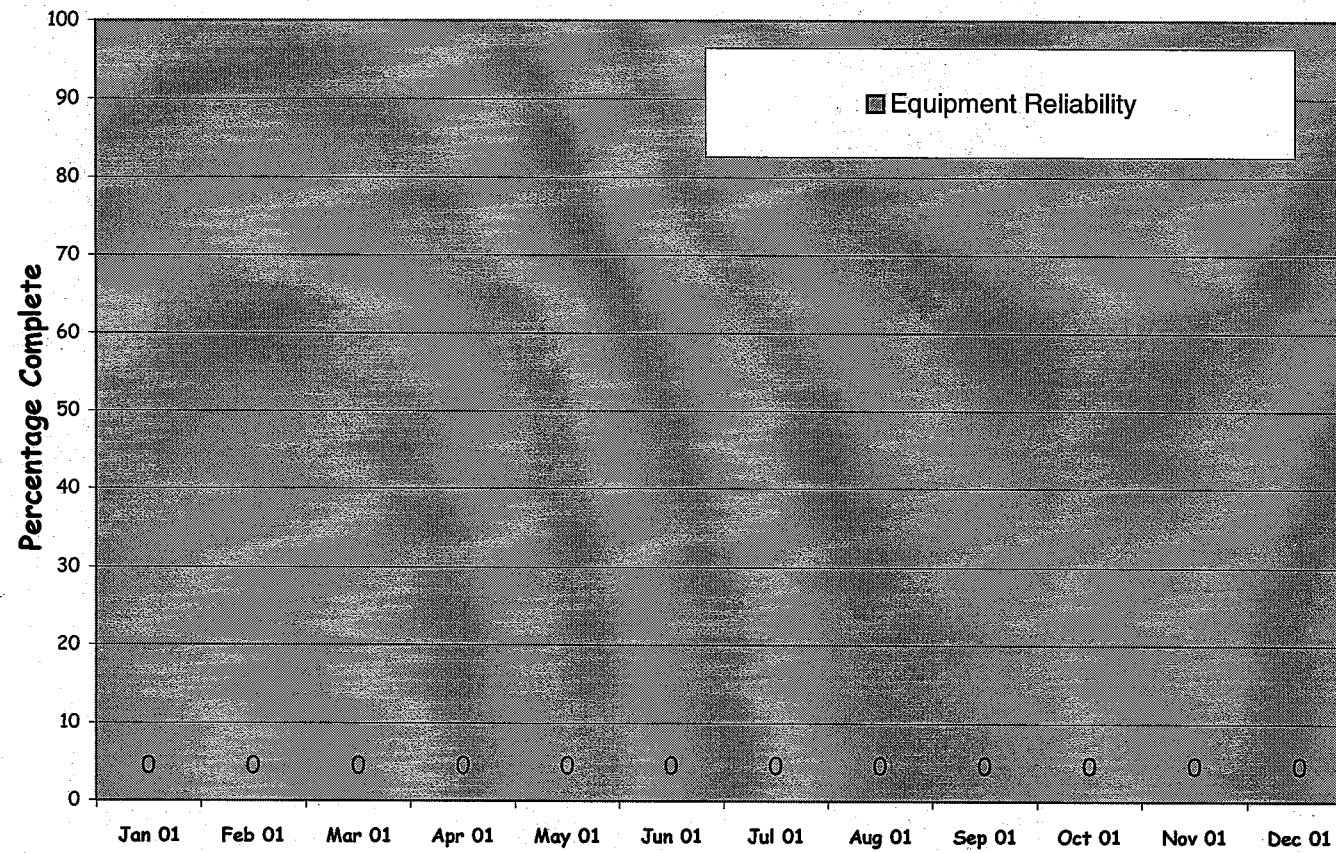
Number of EQ Generic Quals and Plant Quals Complete



Fire Protection Program Upgrade Schedule Adherence



Preventive Maintenance Templates Completed



6. Appendices

6.1 Functional Responsibilities

Monitor System, Structure and Component (SSC) Health and Performance

System monitoring is the program used to track and trend key characteristics of systems. System monitoring is a key function for the system engineer to proactively find equipment problems before they become plant problems. This program aids the station in planning for equipment issues. System engineers currently trend parameters through various systems such as Plant Information System (PII), PRISM and Maintenance Rule Program. System monitoring is used to expand system awareness beyond the Maintenance Rule and to standardize the collection and analysis of data.

SSC Corrective Action

SSC corrective actions are addressed as described in SAO-112, "Corrective Action Program." The intent is to identify and analyze nonconforming or anomalous conditions. The System Engineer can then initiate timely and effective corrective actions to resolve identified condition and preclude recurrence.

This may require the following actions:

- Operability determinations
- Reportability determinations
- Root Cause Analysis
- Corrective Action, and/or
- Follow-up to preclude similar events or conditions
- Notifications to the industry of events of generic significance

SSC Strategic Planning: The System Engineer through the System Health and plant modification process accomplishes SSC strategic planning.

System Engineers evaluate field conditions, monitor system trends, and assign priorities to proposed work on plant systems. System Engineers use system walkdowns reports and system health reports to inform station management of any concerns or needs in order to achieve optimum performance of their system.

Where plant changes are noted that will improve system performance, the system engineer initiates a Request for Engineering Service (RES) to start the modification process. The recommended changes are then evaluated and dispositioned by Station Management. Successful requests are then integrated into Business Plans.

Rapid Response

The Plant Engineering Section is organized to provide the day to day technical support needs for Station maintenance. The primary focus is to ensure that SSC's can perform their design functions safely and reliably.

Plant Engineering Management provides the daily Engineering Duty Manager coverage during normal working hours. Off-hours coverage is distributed throughout the managers of the other Engineering Sections on a rotating schedule.

Training/Qualifications

The Engineering Support Personnel (ESP) Training Program is designed for personnel who provide engineering support for Indian Point 2. This program applies to individuals who have engineering management oversight responsibilities or who are included in the Engineering Support population.

The overall Engineering Support Personnel Training Program consists of:

- Initial Training
- Orientation Training
- Position-Specific Training
- Continuing Training
- General
- Specific
- Professional Development

Personnel who are within the population of the accredited training program are to participate in the elements of the program. Each individual's training program may be customized based upon the individual's responsibilities.

6.2 Personnel Information

<u>Name</u>	<u>Title</u>	<u>Highest Degree</u>	<u>Professional License</u>	<u>Professional Experience</u>	<u>Con Ed Experience</u>
MANAGEMENT					
J. VENTOSA	DEPARTMENT MANAGER	MBA	SRO	16	9
J. KELLNER	SECRETARY	DIPLOMA	-		
J. BARLOK	SECTION MANAGER	BS	-	20	18
L. BURBIGE	SECTION MANAGER	BS	NY-PE	30	25
T. McCAFFREY	SECTION MANAGER	MS	NY - PE	8	8
P. O'BRIEN	SECTION MANAGER	MBA	SRO	5	5
M. VASELY	SECTION MANAGER	BS	SRO	22	12
M. DRISCOLL	TECHNICAL SPECIALIST	BS	-		
A. BEKKERMAN	SR. ENGINEER	MS	-	24	16
E. WHITE	SR. ENGINEER	BS	NY-PE NYC- STA ENG	20	20
J. XENAKIS	SR. ENGINEER	BS	NY-PE	23	20
E. ZOZOBRAO	SR. ENGINEER	BS	-	25	2
R. ALTADONNA	SR. ENGINEER	BS	-	26	26
T. BRUNELLE	ENGINEER	BS	-	18	18
A. DeDONATO	SR. ENGINEER	BS	-	22	16
P. DeSTEFANO	SR. ENGINEER	BSME	EIT	21	21
L. LUBRANO	SR. ENGINEER	BEEE	PE	14	12
J. SZABO	ENGINEER	BSME	-	9	9
M. KOBBS	TECHNICAL SPECIALIST	HS	-	10	10
MAHLMEISTER	TECHNICAL SPECIALIST	HS	-	21	16
M. CHESKIS	SR. ENGINEER	BS	VA - PE	25	2
M. DiGENOVA	SR. ENGINEER	MS	-	27	12
D. INGRAM	ENGINEER	MBA	-	19	10
D. SHAH	SR. ENGINEER	MS	NY-PE	25	10
F. WILKINS	ENGINEER	Bs-NE	-	9	1
A. BAR	SR. ENGINEER	PHD	-	34	17
J. CAMBIGIANIS	ENGINEER	BS	-	6	1
R. CIAMARRA	SR. ENGINEER	MS	NY-PE	11	11
M. FAGGIOLI	PROJECT SPECIALIST	HS	-	23	2
T. FOLEY	ENGINEER	MS	NY-PE	13	13
F. GOLOMB	ENGINEER	BS	-	7	2
J. O'DRISCOLL	ENGINEER	BS	-	4	1
V. SACCO	SR. ENGINEER	BS	NJ-PE	24	1
V. ANDREOZZI	SR. ENGINEER	MS	-	11	11
P. CORDERO	ENGINEER	BS	-	22	22
B. MEEK	ASSOCIATE ENGINEER	BS	-	7	1
J. COTTAM	PROJECT SPECIALIST	DIPLOMA	SRO	19	1
P. SPEEDLING	SPECIALIST	BS	-	21	21
M. BARLOK	SR. SPECIALIST	BS	-	10	2

C. BERGREN	SR. ENGINEER	BS	-	18	13
A. BOKHARI	SR. ENGINEER				1
G. DAHL	ENGINEER	Bs-ME	-	20	12.5
R. SUTTON	SR. ENGINEER	Bs	-	28	16
M. WALTHER	ENGINEER	MBA	-	12	9
H. MALONE	ENGINEER	Bs-ME	-	7	7MONTHS
A. KING	ENGINEER	BS	-	20	12
T. MCKEE	SR. ENGINEER	MS	-	13	1
D. HALAMA	SR. ENGINEER	BS	-	26	1
G. HUGHES					
B. SCOTT	PROJECT SPECIALIST	BA	-	21	1
T. COGDILL	PROJECT SPECIALIST	-	-	26	1
P. DEEDS	SR. QA EXAMINER	MS	-	30	10
J. SCHWARTZ	SR. QA EXAMINER	HS	-	29	29
R. HERRMANN	QA EXAMINER	BS	-	22	14
TOTAL MGMT:	54 PEOPLE				

WEEKLY

L. FEDERICO	SENIOR OFFICE ASST A	HS	-	35	11
R. MORMINO	SR. ENGINEERING DESIGNER	HS		35	35
L. ALEXANDER	OFFICE ASSISTANT	HS	-	12	11
V. AMMERATA	SR. NUC. PRODUCTION TECH.	HS	-	30	28
E. BABUDRI	SR. NUC. PRODUCTION TECH.	HS	-	50	34
R. MANN	SR. NUC. PRODUCTION TECH.	HS	-	28	22
D. OSCARSON	SR. NUC. PRODUCTION TECH.	HS	-	29	37
P. PASQUALE	SR. NUC. PRODUCTION TECH.	HS	-	25	20
J. PALINKAS	SR. NUC. PRODUCTION TECH.		-		
T. PEPE	SR. NUC. PRODUCTION TECH.		-		
P. POLIRER	SR. NUC. PRODUCTION TECH.	AS	-	23	13
T. SORRENTINO	SR. PRODUCTION TECH.	AS	-	30	30
TOTAL WKLY:	12 PEOPLE				

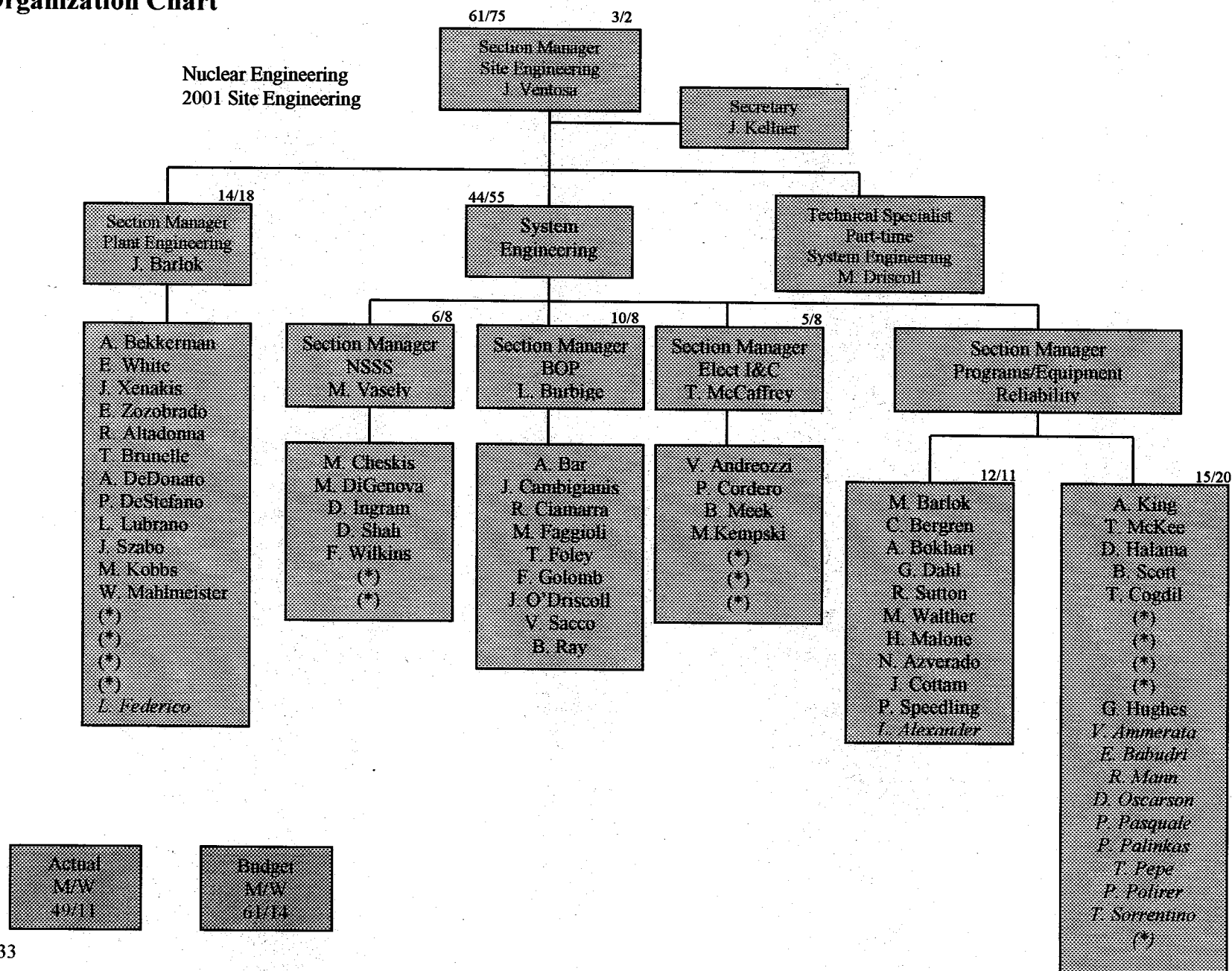
CONTRACTORS/TEMPORARY

OPEN OR REQUESTED

Authorized Positions

	Management	Weekly	Totals
2000 Budget			
2001 Approved Budget Request			
Change			

6.3 Organization Chart



6.5 Operational Overview

This section covers routine, ongoing functions and activities of the organization.

Item	Project/Program	Description	Estimated Con Ed Hours	Estimated Outside Support
6.5.1.1	Condition Reports - Plant Engineering	Complete CRs that contain: SL's, , FCA's and ICA's.	8,500	
6.5.1.2	Condition Reports - System Engineering	Complete CRs that contain: SL's, , FCA's and ICA's.	10,500	
6.5.1.3	Condition Reports - Program Engineering	Complete CRs that contain: SL's, , FCA's and ICA's.	6,000	
6.5.1.4	Condition Reports - Equipment Reliability	Complete CRs that contain: SL's, , FCA's and ICA's.	4,800	
6.5.2	Generic Mods	Develop and issue generic mods at approx 6/month to support plant needs	2,400	
6.5.3	DOE's/MSAP's	Develop and issue DOE's/MSAP's at approx 10/month to support plant needs	2,400	
6.5.4	TFC's	Develop and issue TFC's at approx 5/month to support plant needs	750	
6.5.5	Calcs/Analysis	Develop calculations and required analysis at approx 8/month in support of other Engineering duties.	2,300	
6.5.6	DMD's	DMD's in support of Mods, DOE's, MSAP's at approx 16/month	1,900	
6.5.7.1	Safety Evaluations - Plant Engineering	Develop Safety Evaluations in support of DOE's and TFC's at approx 6/month	2,300	
6.5.7.2	Safety Evaluations - System Engr/Programs	Develop Safety Evaluations in support of procedure changes, TFC's, temporary repairs, Operability Determinations	1,440	
6.5.8	Field Support/Failure Analysis	4 Component Engineers at least 50% of their time above the normal required Engineering field support	2,500	
6.5.9	INPO Evaluation	Provide engineering support for INPO evaluation	1,200	

6.5.10	System Health	Prepare and present quarterly System Health reports	5,200	
6.5.11	Maintenance Rule Review	Review condition reports and operator logs for SSC reliability and availability data	3,900	
6.5.12	System Walkdowns	Prepare and perform reviewed system walkdowns and walkdown report	7,000	
6.5.13	System Monitoring	Review/analyze system performance data per system monitoring plan	2,600	
6.5.14	System Long Range Plan	Prepare and present system long range plan	544	
6.5.15	System PM/PDM Review	Review system preventive maintenance tasks utilizing EPRI NMAC templates	544	
6.5.16	Modification Support	Provide support for modification process reviews and closeout (RES, DDR, Modification Tracking)	1,400	
6.5.17	Industry Meetings	Participate in industry meeting and groups to ensure continued improvement of Indian Point	880	
6.5.18	System Description Updates	Perform required revisions to system descriptions	680	
6.5.19	Operability Evaluations	Prepare Operability Evaluations to support plant needs	400	
6.5.19	Program Responsibilities	Perform required program duties for assigned engineering programs (FAC, IST, ISI, MR, EQ, AOV, MOV, etc.)	12,000	
6.5.20	Surveillance Process	Prepare, review and approve Surveillance Program Test Revisions	6,000	
6.5.21	Emergency Planning	Support for emergency planning and participation in exercises and drills. (20 people @ 24 hours)	480	
6.5.22	Misc.	Petty Cash, Communications, Building Services Costs	-	
6.5.23	Training	Complete all continuing and qualification training including GET, ESP, etc (48 @ 70 hours + 12 @150)	5160	

6.5.24	NRC Liaison, QA Audit Support, Self Assessments	Support for NRC licensing and inspection activities, QA audits and to conduct department planned self-assessments.	3000	
6.5.25	Management & Supervision	Time spent in management and supervisory functions including planning, delegation and oversight of work. Assume 75% of Dept Mgr time	5875	
6.5.26	Emergent Work	Time allocated for work that must be done to support safe and reliable operation.	2000	
6.5.27	Vacations, Holidays, Sick and Authorized Leave	V: 60 People X 18 Days ave X 8 hrs = 8640 Hrs H: 60 People X 11Days ea X 8 hrs = 5280 Hrs S & AL: 60 People X 7 Days ea X 8 hrs = 360 Hrs	17280	
6.5.28	Clerical & Administration	Perform clerical & administrative duties	4500	
6.5.29	Technician	Perform PDM Performance and Test activities	15000	
			Total Estimated Con Ed Person-Hours	141,433
			Total Estimated Outside Support	

6.6 2001 Resource Plan

Section	Item	Estimated Con Ed Person- Months	Con Ed Labor Dollars (000)	Estimated Outside Support \$'s (000)	Total Estimated Dollars (000)
6.5	OPERATIONAL OVERVIEW	832			
4	Project Requests	68			
6.5 + 4	Total Resources Needed	900			
	2001 Approved Budget	900			