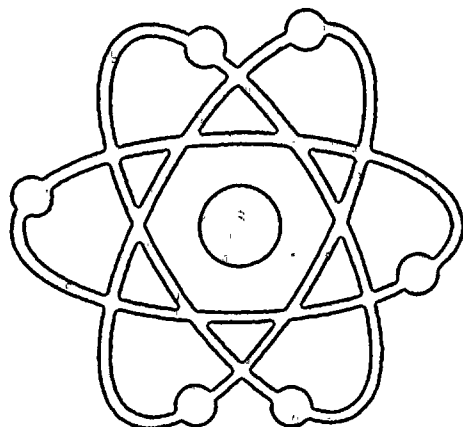


Nuclear Division

Performance Monitoring — Executive Report



JULY, 1991

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PDR ADOCK 05000410
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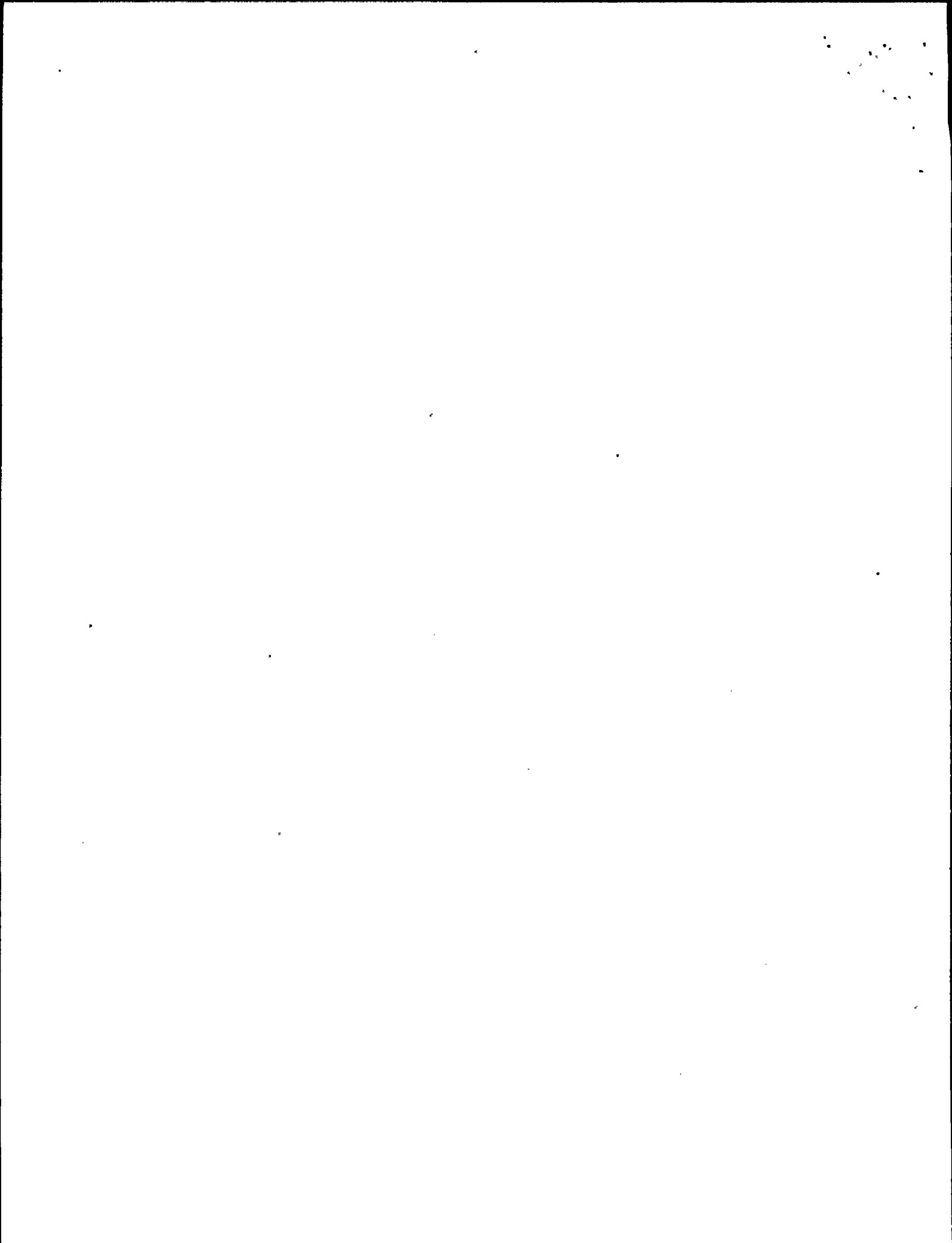
9305060334

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*INPO Performance Indicator

#Incentive Performance Indicator



TITLE

PAGE

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DEFINITIONS

D-1 thru D-4

Key: I = Unit 1
 II = Unit 2
 C = Common

Executive Summary
July 1991
Unit 1

Generation

Net generation was 277,450 Mwhrs for the month. Net capacity factor was 60.6% bringing year-to-date to 66.7%, above the target of 64.4% or greater. The availability factor for July was 65.5%. Reductions in capacity factor were due mainly to a 10.7 day maintenance outage to reduce a leak in the drywell. On the last two days of July power was limited to approximately 93.0% because of low condenser vacuum caused by the rising lake temperature. Other reductions in capacity factor were due to weekly Control Rod exercising and the inability to obtain 100% Core Thermal Power due to turbine steam flow limitation.

Financial

July Nuclear Production Operating and Maintenance preliminary expenditures were \$5.4 million or \$1.5 million under target. The preliminary capital expenditures for July were \$1.4 million, which was \$0.6 million under budget. To date, there is no planned permanent underrun to the 1991 capital budget.

Reportable Events (Potential LERs) to NRC Operations Center

There was one reportable event in July, which is an LER. This LER is further described on page I-4.

NRC Violations

There was one Notice of Violation (Level V) discussed at the monthly exit with the Residents.

Collective Radiation Exposure

Collective radiation exposure for July was 15.9 manrem while the target for July was 12.18 manrem. The cumulative target through July was 175.21 manrem or less while the cumulative actual year-to-date was 127.7 manrem. The 1991 target is 250 manrem or less.

Industrial Safety

There were no reportable lost time accidents in July. Unit 1 employees have worked 3,161,517 manhours as of July 31st or 699 days without a lost time accident. However, there was one lost time accident at the site and this was a person in the Site Services department.

Executive Summary
July 1991
Unit 2

Generation

Net generation was 742,895 Mwhrs for the month. Net capacity factor was 92.4% bringing the year-to-date to 73.95%. The availability factor was 100% during July 1991. Reductions in capacity factor during the month were due to oil leaks on Reactor Feedwater pump, steam leak on Moisture Separator/Reheater Pressure Control valve, low final Feedwater temperature due to Feedwater Heater problems, condenser fouling, turbine valve tests and control rod adjustments.

Financial

July Nuclear Production Operating and Maintenance preliminary expenditures were \$7.7 million, or \$1.1 million under target. The preliminary capital expenditures for July were \$1.4 million, which was \$0.3 million under budget. Capital expenditures are expected to increase towards year's end. Underruns in some projects have been identified with possible offsets in other areas.

Reportable Events (Potential LERs) to NRC Operations Center

There was one reportable event in July which is an LER. This LER is further described on page II-4.

NRC Violations

There was one Notice of Violation (Level V) discussed at the monthly exit with the Residents.

Collective Radiation Exposure

Collective radiation exposure for July was 6.2 manrem while the target for July was 8.33 manrem. The cumulative target through July was 58.31 manrem or less while the cumulative actual was 59.2 manrem. The 1991 target is 100 manrem or less.

Industrial Safety

There were no reportable lost time accidents in July. Unit 2 employees have worked 2,064,642 hours as of July 31st or 374 days without a lost time accident. However, there was one lost time accident at the site and this was a person in the Site Services department.

NUCLEAR DIVISION EXECUTIVE SUMMARY

NINE MILE POINT UNIT 1 TOP PERFORMANCE INDICATORS	1991 PERFORMANCE INDICATORS					
	1991-TARGET	INDUSTRY MEDIAN*	MONTH OF JULY		YEAR-TO-DATE	
			ACTUAL	TARGET	ACTUAL	TARGET
SAFETY INDICATORS IN ND BUSINESS PLAN						
Collective Radiation Exposure (ManRem) #	250	460	15.9	12.18	127.7	175.21
Low-Level Rad Waste (m3 Shipped)	375	300	5.68	31.25	68.31	218.75
Lost Time Accident Rate (Number of Cases/200,000 Man Hours) #	.28	.15	0	—	0.00	.28
Nondisabling Injuries (First Aid)	—	—	2	0	12	0
Disabling Injuries	<2	—	0	0	0	0
Unplanned Automatic Reactor Scrams per year (7,000 hours critical)	1	1.0	1	0	2	0
Fuel Reliability (uCi/sec) (Average)	<300	99	270	<300	255.5	<300
COMMERCIAL INDICATORS IN ND BUSINESS PLAN						
Capacity Factor (MDC) (%) #	71	—	60.6	86.3	66.7	64.4
Unit Capability Factor (%)	71	—	64.3	96.0	66.8	71.0
Unplanned Capability Loss (%)	4.0	—	35.6	3.0	12.6	2.2
Thermal Performance (%) (Design/Actual)	98.9	98.8	98.6	99.2	99.3	99.2
Chemistry Index	<.24	.36	.19	<.24	.20	<.24
Safety System Performance Unavailability (These values are calculated quarterly)			3rd Quarter thru July		Year-To-Date	
High Pressure Injection (%)	.015	.015	0.0		0.004	
Torus & Shutdown Cooling (RHR) (%)	.004	.005	0.008		0.015	
Emergency AC Power Unavailability (%)	.017	.017	0.023		0.007	

* Source of data: INPO Comparative Performance Indicator Report (Industry data through 12/90)

Salary Incentive Performance Indicator

I-2

NUCLEAR DIVISION EXECUTIVE SUMMARY

NINE MILE POINT UNIT 1	1991 PERFORMANCE INDICATORS				
	1991 TARGET	MONTH OF JULY		YEAR-TO-DATE	
REGULATORY INDICATOR IN ND BUSINESS PLAN		ACTUAL	TARGET	ACTUAL	TARGET
Number of LER's	<23	1	<2	8	<14
PROFESSIONAL INDICATOR					
Number of LER's/Violation due to Personnel Error #	<6	0	<1	2	<3
FINANCIAL (\$ X 1,000)					
Nuclear Production O & M Expenses (Budget @ 95%) ** #	86,317	5,424	6,877	43,923	52,865
Capital Improvements	28,563	1,401	2,026	7,946	14,660
Capital Improvement - Common	5,402	222	377	839	2,950
PSC MERIT INCENTIVES				June 1, 1991 - To Date	
LLRW Disposal Volume (M ³ Shipped) *	319.5 - 339.5	5.68	47	11.36	94
Cumulative Rad Exposure (ManRem) *	110 - 130	15.9	17	21.6	34
Complete Conceptual Engr. Outage Mods. *	11/27/91 - 12/12/91	0 Compl.	0 Compl.	0 Compl.	0 Compl.
Radwaste Corr./Maint W.R.'s *	25 - 50	72	25 - 50	72	25 - 50
Fire Corr./Maint. W.R.'s *	25 - 50	68	25 - 50	68	25 - 50
Nuisance Annunciators *	15 - 20	4	15 - 20	4	15 - 20
Corr./Maint. Power Block W. R.'s *	400 - 450	438	400 - 450	438	400 - 450

Salary Incentive Performance Indicator

* June 1, 1991 to December 31, 1991

** 1991 O & M Targets @ 95%

NUCLEAR DIVISION EXECUTIVE SUMMARY

NINE MILE POINT UNIT 2 TOP PERFORMANCE INDICATORS	1991 PERFORMANCE INDICATORS					
	1991 TARGET	INDUSTRY MEDIAN*	MONTH OF JULY		YEAR-TO-DATE	
			ACTUAL	TARGET	ACTUAL	TARGET
SAFETY INDICATORS IN ND BUSINESS PLAN						
Collective Radiation Exposure (ManRem) #	100	460	6.2	8.33	59.2	58.31
Low-Level Rad Waste (m3 Shipped)	375	300	15.44	31.25	167.12	218.75
Lost Time Accident Rate (Number of Cases/200,000 Man Hours) #	.26	.15	0	—	0.0	.26
Nondisabling Injuries (First Aid)	—	—	5	0	31	0
Disabling Injuries	<2	—	0	0	0	0
Unplanned Automatic Reactor Scrams per year (7,000 hours critical)	1	1.0	0	0	0	0
Fuel Reliability (uCi/sec) (Average)	<50	99	3.89	<50	.56	<50
COMMERCIAL INDICATORS IN ND BUSINESS PLAN						
Capacity Factor (MDC) (%) #	76	—	92.4	80.0	73.95	71
Unit Capability Factor (%)	76	—	92.86	80.0	74.46	71
Unplanned Capability Loss (%)	13	—	4.59	<5	8.32	<13.3
Thermal Performance (%) (Design/Actual)	99	98.8	98.7	99.2	99.3	99.2
Chemistry Index	<.27	.36	.46	<.27	.42	<.27
Safety System Performance Unavailability (These values are calculated quarterly)			3rd Quarter thru July		Year-To-Date	
High Pressure Injection (%)	.03	.015	0.003		0.05	
Residual Heat Removal (%)	.025	.005	0.011		0.005	
Emergency AC Power Unavailability (%)	.02	.017	0.001		0.014	

* Source of data: INPO Comparative Performance Indicator Report (Industry data through 12/90)

Salary Incentive Performance Indicator

NUCLEAR DIVISION EXECUTIVE SUMMARY

NINE MILE POINT UNIT 2	1991 PERFORMANCE INDICATORS				
	1991 TARGET	MONTH OF JULY		YEAR-TO-DATE	
		ACTUAL	TARGET	ACTUAL	TARGET
REGULATORY INDICATOR IN ND BUSINESS PLAN					
Number of LER's	<23	1	<2	15	14
PROFESSIONAL INDICATOR IN ND BUSINESS PLAN					
Number of LER's/Violation due to Personnel Error #	<13	0	<1	4	<7
FINANCIAL (\$ X 1,000)					
Nuclear Production O & M Expenses ** #	106,907	7,748	8,833	55,935	63,406
Capital Improvements	24,289	1,410	1,807	7,728	14,795
Capital Improvement - Common	5,849	268	453	1,022	3,548
PSC MERIT INCENTIVES				June 1, 1991 - To Date	
LLRW Disposal Volume (M ³ Shipped) *	234.8 - 254.8	15.44	34.97	39.07	69.94
Net Electric Generation MWH *	3,890,000 - 4,705,000	742,895	730,700	1,505,761	1,442,700
Cumulative Rad Exposure (ManRem) *	55 - 65	6.2	8.5	10.5	17.0
Issue Engr. & Installation Plans for Outage Mods *	11/27/91 - 12/12/91	1 Compl.	0 Compl.	1 Compl.	0 Compl.
Total W. R. Backlog *	1,500 - 1,650	1,789	1,800	1,789	1,800
Performance Safety Related P. M.'s (%) *	96 - 99	91.66	99	91.66	99
Nuisance Annunciators (Main Control Room Only) *	20 - 35	31	30	31	30
COMMON REGULATORY PERFORMANCE					
NRC Commitments Met on Time (%) #	95	100	100	99.0	95
INPO Commitments Met on Time (%) #	95	100	100	86.8	100
COMMON MERIT INCENTIVE					
Nuclear Division AVA Annualized Gross Value #	33,487,000	47,300	30,354,900		

Salary Incentive Performance Indicator

* June 1, 1991 to December 31, 1991

** 1991 O & M Targets @ 95%

UNIT I
LER/VIOLATION SUMMARY

POTENTIAL LERs

During this reporting period, there was one Reportable Event to the NRC which is a potential LER.

LER #91-08
DER 1-91-Q-0539

On July 18, 1991, Nine Mile Point Unit 1 experienced a full reactor scram. Specifically, while performing a planned shutdown the Reactor Protection System activated because of a simultaneous neutron spike on IRM 13 and IRM 16 causing an automatic reactor scram. At the time of the event, the reactor mode switch was in Hot Shutdown.

NOTICE OF VIOLATION

91-12-01 Control of Temporary Modifications

SIGNIFICANT EVENTS

- Nine Mile Point Unit I planned and coordinated with Niagara Mohawk Power Control to execute an unscheduled shutdown on July 18, 1991 to repair drywell leakage. The drywell leakage repairs included the coupling on the Reactor Building Closed Loop Cooling Water piping to #14 Reactor Recirculation Pump (RRP) seal cooler, and packing leaks on the Main Steam Isolation Valve 01-01 and #12 R.R.P. discharge valve. Additional corrective maintenance tasks completed were, the rebuild of #13 Main Feedwater Pump, the inspection and rebuild of Feedwater Flow Control Valves #11A & B, the repair of Turbine control oil leaks, repair of Reactor Cleanup Isolation Valve 33-04, the pre-operational test of newly installed battery static chargers, the shaft replacement of #1 Control Rod Drive Pump, repair of #15 R.R.P. MG set, the replacement of Intermediate Range Neutron Detectors #15 and #18 and the repair of various minor steam leaks in the steam plant. Unit I returned to service approximately 10 days later on July 28, 1991.

UNIT II

LER/VIOLATION SUMMARY

During this reporting period, there was one Reportable Event to the NRC.

LER #91-16 On July 2, 1991, during the performance of procedure "Service Water Valve Position Verification", Operations personnel discovered that the cooling water inlet and outlet valves for a Reactor Building unit cooler were not in their normal operating positions. These conditions resulted in the unit cooler being inoperable and Nine Mile Point Unit 2 being in violation of Technical Specifications. At the time the conditions were discovered, the reactor mode switch was in the "RUN" position (Mode 1) with the reactor operating at 100 percent rated thermal power.

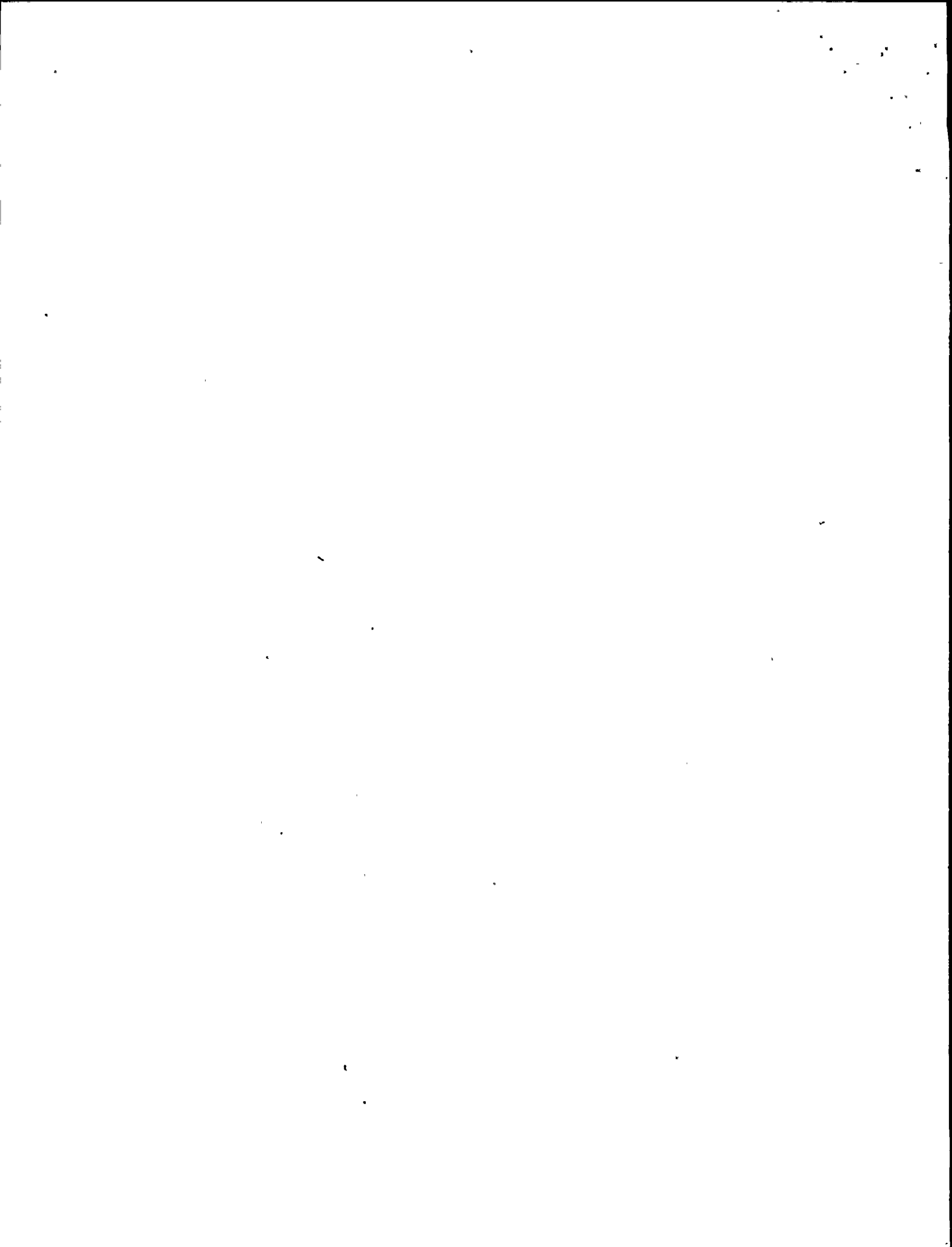
The preliminary root cause of this event has been determined to be a procedural inadequacy. The final root cause and any contributing factors will be documented and reported in a supplement to the LER.

NOTICE OF VIOLATION

91-12-01 Control of Temporary Modifications.

SIGNIFICANT EVENTS

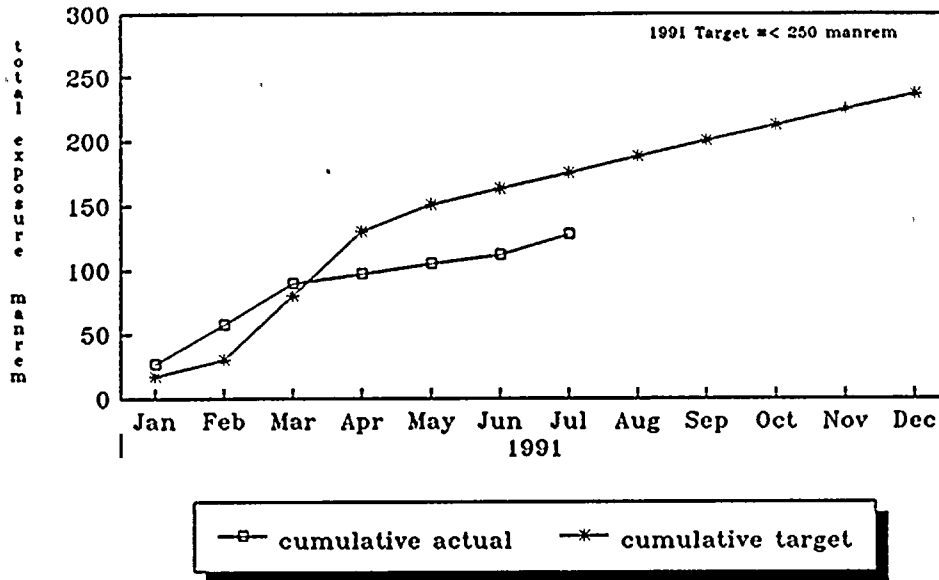
- Feedwater pump seal problems - seals for C pump were rebuilt and the pump returned to service.
- Reactor Water Cleanup (RWCU) Pump A seal replacement in progress.
- Successful addition of Clamtrol for Zebra mussel control.
- Repaired steam/water leaks on RWCU and feedwater systems.
- Operations and Maintenance, with assistance from all support groups, continued Unit operation at a high capacity level by addressing and resolving a variety of challenges to their respective skills.
- Exceeded 2 million manhours without a lost time accident.



BUSINESS PLAN
PERFORMANCE INDICATORS

PI 1. NINE MILE POINT UNIT 1 COLLECTIVE RADIATION EXPOSURE

YTD = 127.7

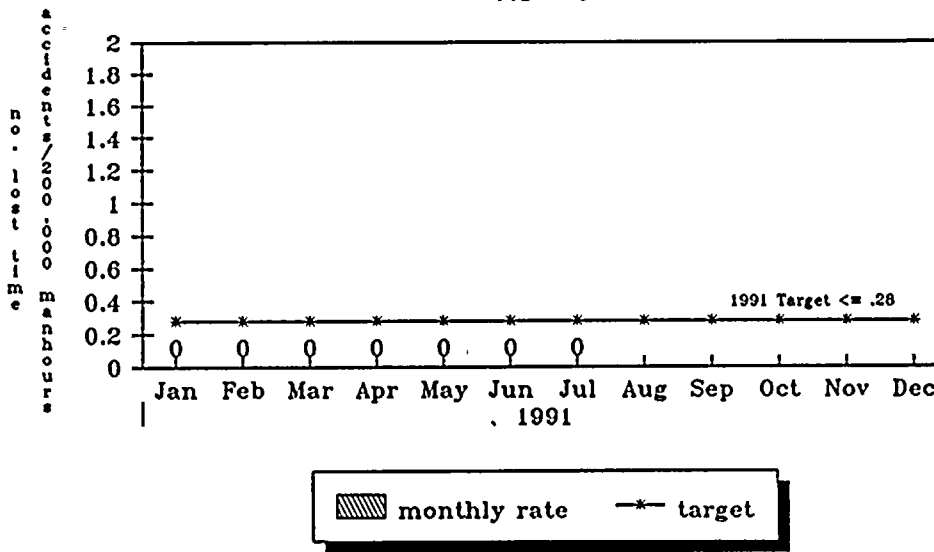


1/88 - 12/90 INPO Industry Average = 460 manrem

Data Accountability - Supv. ALARA

PI 2. NINE MILE POINT UNIT 1 INDUSTRIAL SAFETY LOST-TIME ACCIDENT RATE

YTD = 0

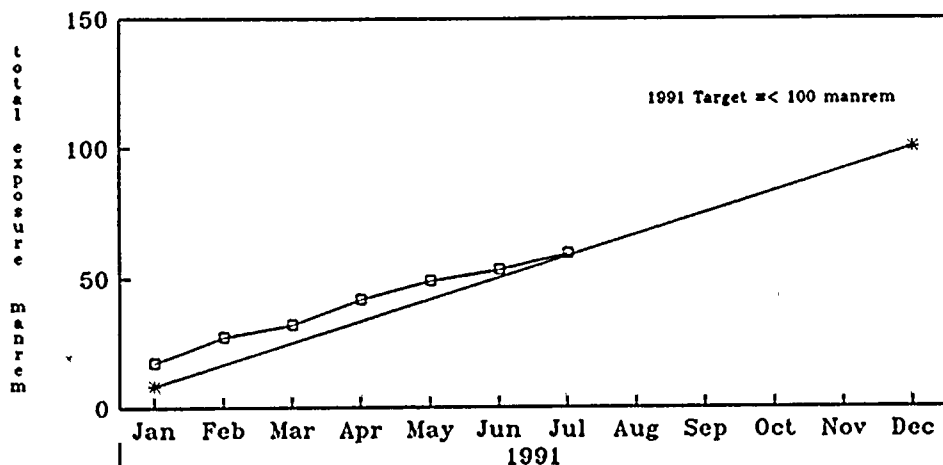


1/90 - 12/90 INPO Industry Average = .15

Data Accountability - Supv. Indus. Safety

PI 1. NINE MILE POINT UNIT 2 COLLECTIVE RADIATION EXPOSURE

YTD = 59.2



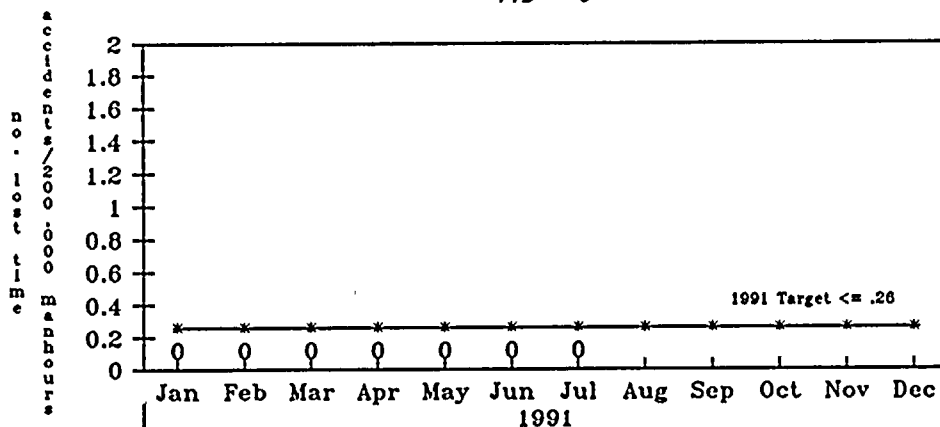
—□— cumulative actual
 —*— cumulative target

1/88 - 12/90 INPO Industry Average = 460 manrem

Data Accountability - Supv. ALARA

PI 2. NINE MILE POINT UNIT 2 INDUSTRIAL SAFETY LOST-TIME ACCIDENT RATE

YTD = 0

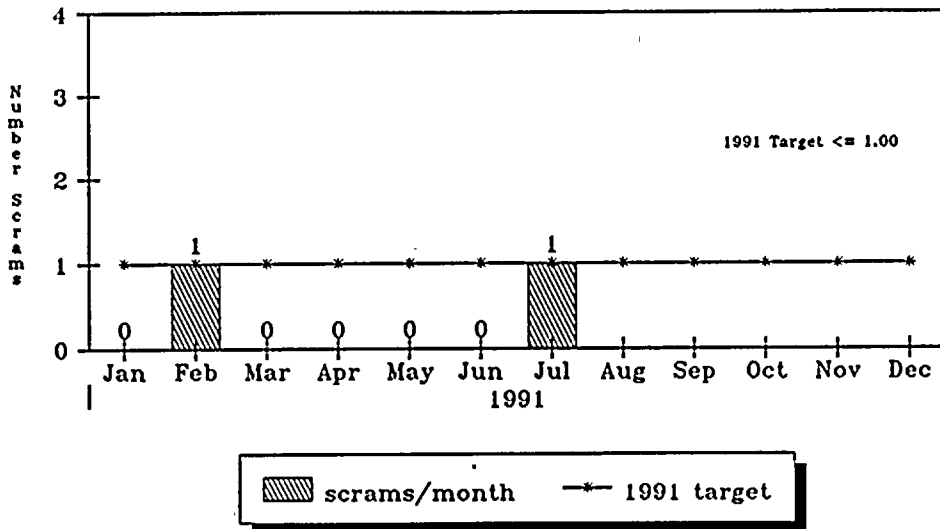


▨ monthly rate
 —*— target

1/90 - 12/90 INPO Industry Average = .16

Data Accountability - Supv. Indus. Safety

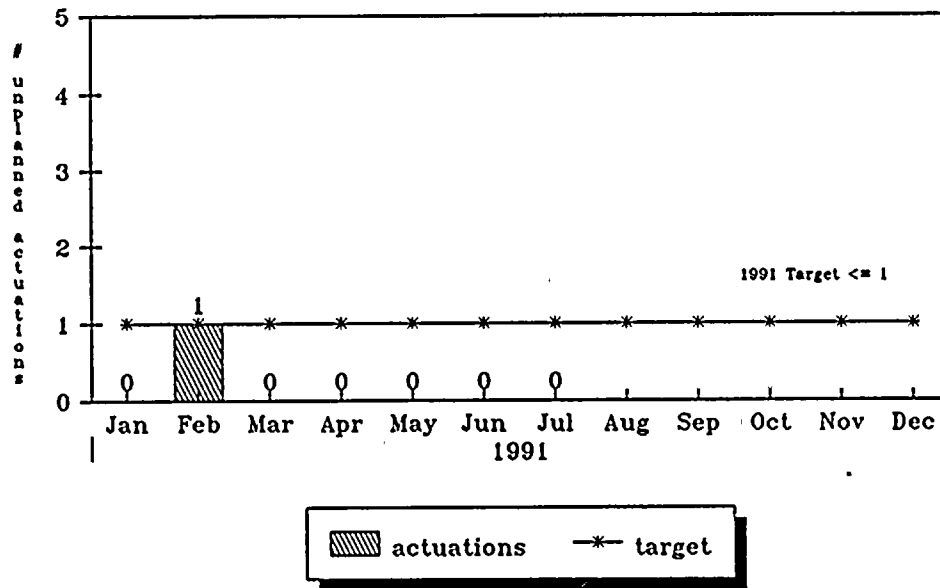
PI 3. NINE MILE POINT UNIT 1
UNPLANNED AUTOMATIC SCRAMS PER
YEAR (7,000 CRITICAL HOURS)



1/90 - 12/90 INPO Industry Average = 1

Data Accountability - Supv. Regulatory Compliance

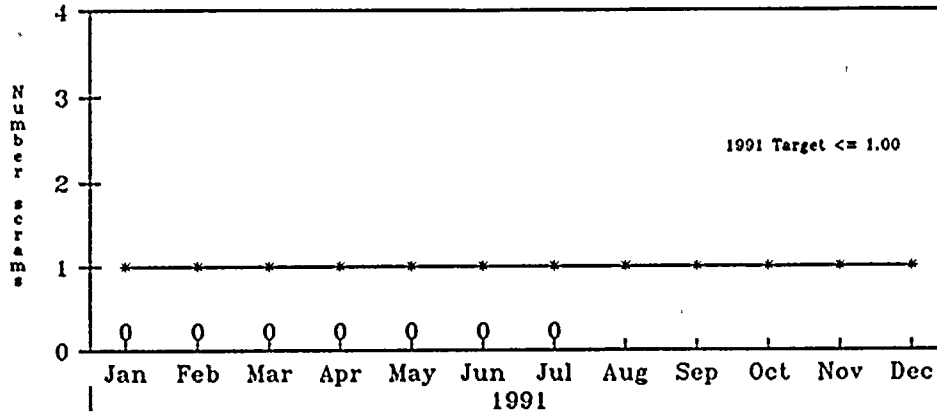
PI 4. NINE MILE POINT UNIT 1
UNPLANNED SAFETY SYSTEM ACTUATIONS
YTD = 1



1/90 - 12/90 INPO Industry Average = 0

Data Accountability - Supv. Regulatory Compliance

PI 3. NINE MILE POINT UNIT 2
UNPLANNED AUTOMATIC SCRAMS PER
YEAR (7,000 CRITICAL HOURS)



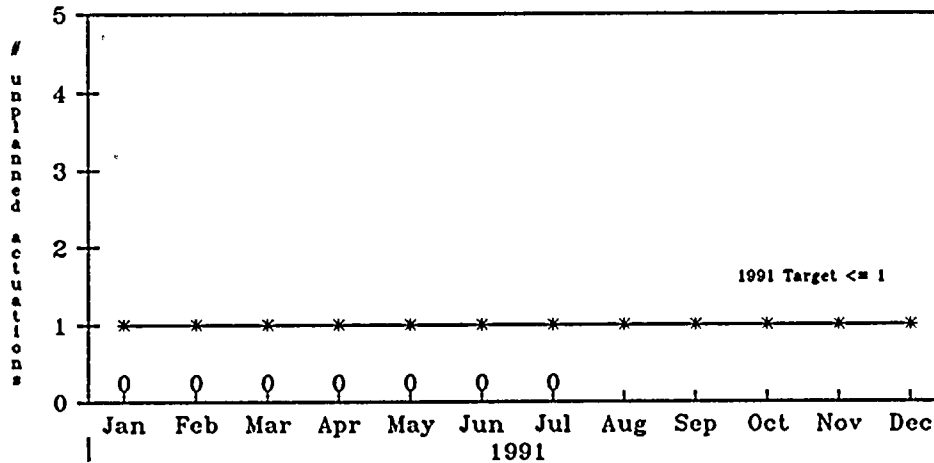
▨ scrams/month * 1991 target

1/90 - 12/90 INPO Industry Average = 1

Data Accountability - Supv. Regulatory Compliance

PI 4. NINE MILE POINT UNIT 2
UNPLANNED SAFETY SYSTEM ACTUATIONS

YTD = 0



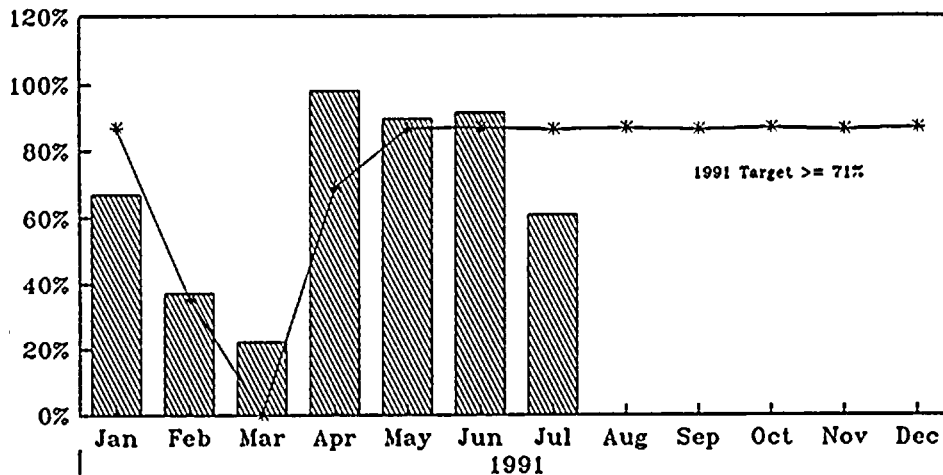
▨ actuations * target

1/90 - 12/90 INPO Industry Average = 0

Data Accountability - Supv. Regulatory Compliance

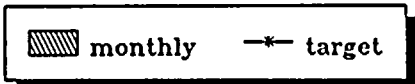
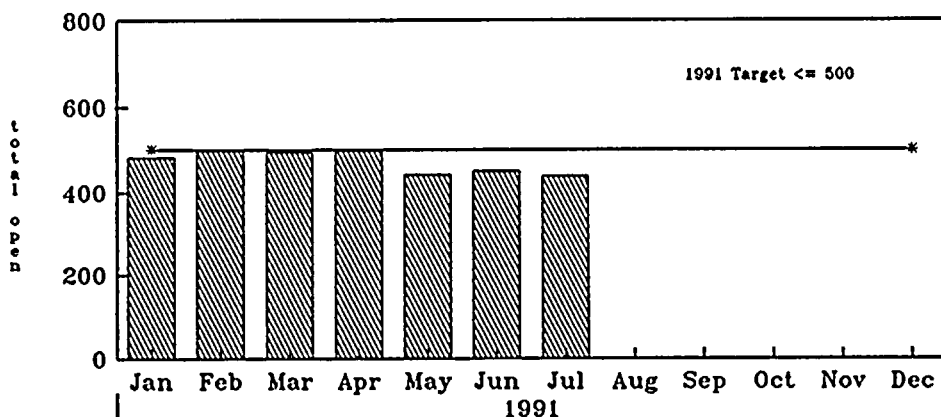
PI 5. NINE MILE POINT UNIT 1 CAPACITY FACTOR (MDC)

YTD = 66.7%



Data Accountability - Supervisor Reactor Engr.

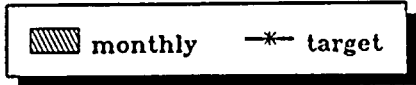
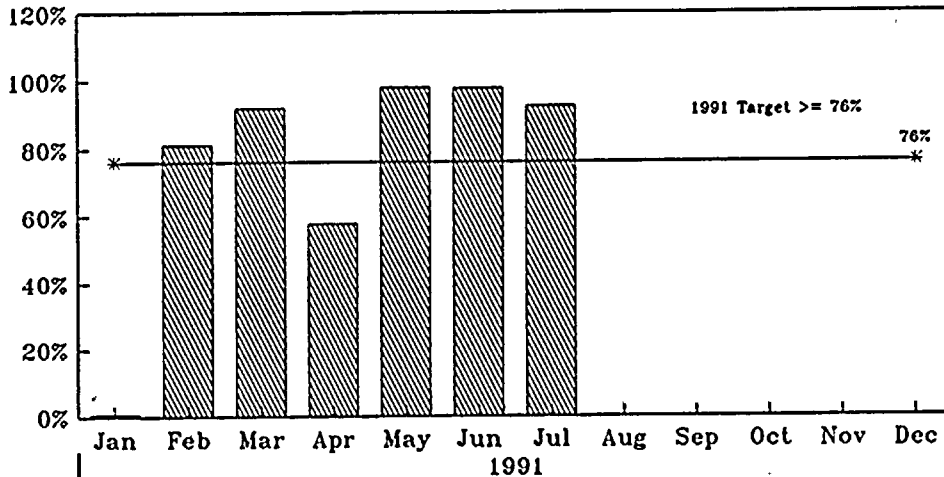
PI 6. NINE MILE POINT UNIT 1 CORR/MAINT BACKLOG OF NON-OUTAGE POWER BLOCK WORK REQUESTS



Data Accountability - Manager Maintenance

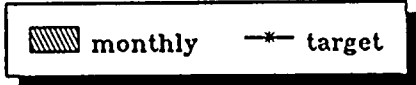
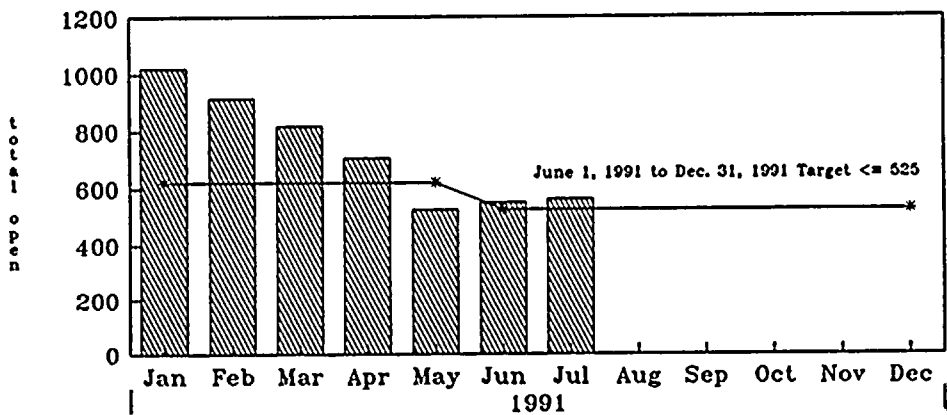
PI 5. NINE MILE POINT UNIT 2
CAPACITY FACTOR (MDC)

YTD = 73.95%



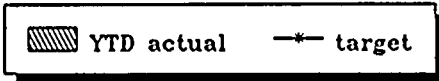
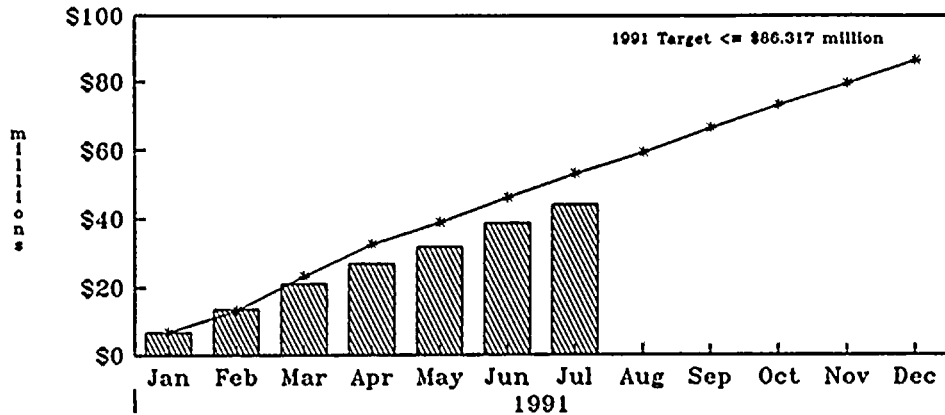
Data Accountability - Manager Technical Support

PI 6. NINE MILE POINT UNIT 2
CORR/MAINT BACKLOG OF NON-OUTAGE
POWER BLOCK WORK REQUESTS



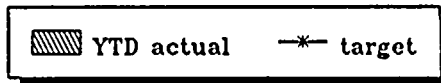
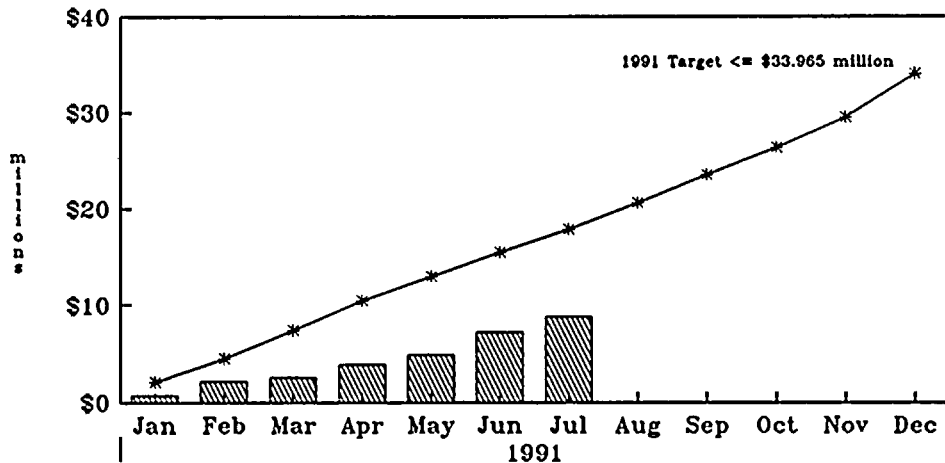
Data Accountability - Manager Maintenance

PI 7. NINE MILE POINT UNIT 1
 TOTAL NUCLEAR PRODUCTION
 OPERATING & MAINTENANCE EXPENSES



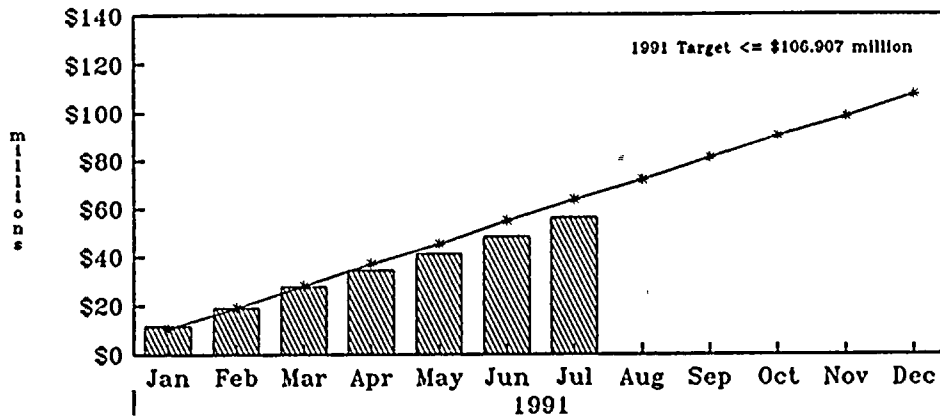
Data Accountability - Controller

PI 8. NINE MILE POINT UNIT 1
 CAPITAL IMPROVEMENTS



Data Accountability - Controller

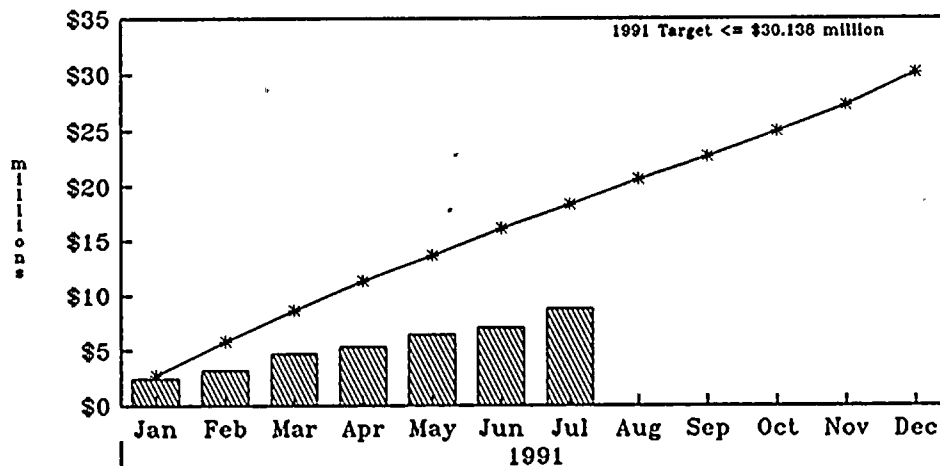
PI 7. NINE MILE POINT UNIT 2
 TOTAL NUCLEAR PRODUCTION
 OPERATING & MAINTENANCE EXPENSES



YTD actual
 target

Data Accountability - Controller

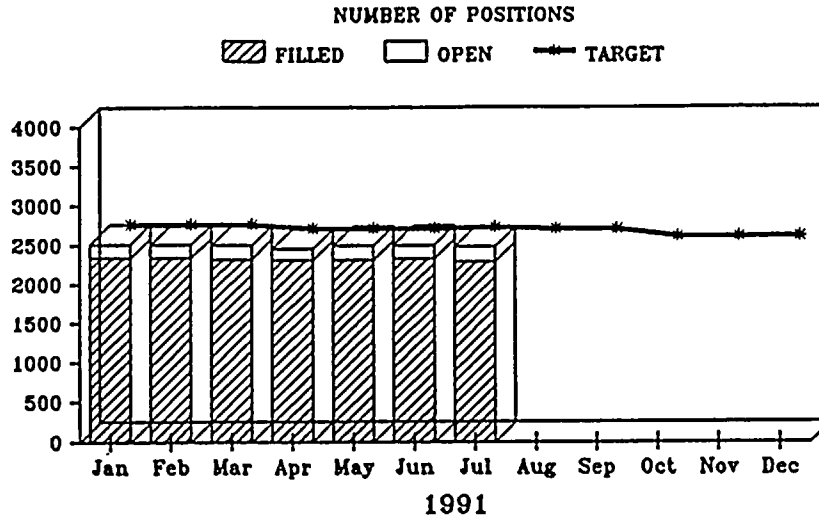
PI 8. NINE MILE POINT UNIT 2
 CAPITAL IMPROVEMENTS



YTD actual
 target

Data Accountability - Controller

MANPOWER STATUS



NIAGARA MOHAWK POWER CORPORATION 1991 LABOR STAFFING MONTH OF JULY

DEPARTMENT TITLE	MONTHLY ACTUAL	MONTHLY TARGET	MONTHLY VARIANCE
Executive-VP/Staff	3	3	0
Executive Staff	13	13	0
Nuclear Communications & Public Affairs	13	13	0
Nuclear Controller	20	22	-2
Nuclear Engineering	344	367	-23
Nuclear Generation	1400	1484	-84
Nuclear Support	376	447	-71
Nuclear Quality Assurance	110	121	-11
TOTALS	2279	2470	-191

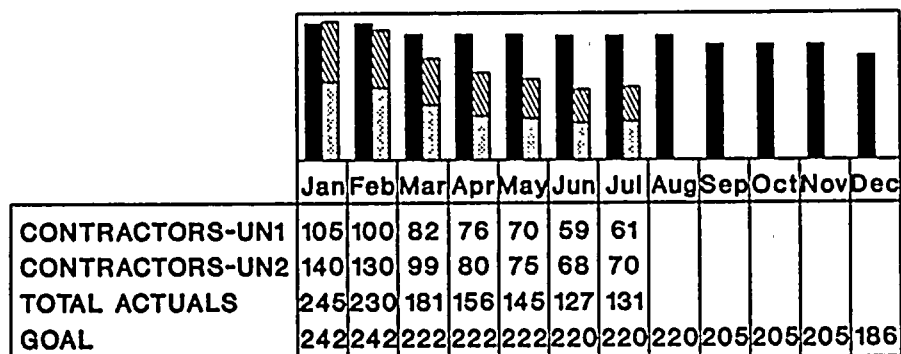
CONTRACTORS BY DEPARTMENT

	JAN	FEB	MAR	APR	MAY	JUN	JUL
GENERATION-UN1	43	40	26	23	18	13	10
GENERATION-UN2	51	46	24	18	13	8	6
ENGINEERING-UN1	10	12	10	13	13	12	14
ENGINEERING-UN2	21	22	20	17	18	18	20
SUPPORT-UN1	50	46	45	39	38	34	37
SUPPORT-UN2	68	62	55	45	44	42	44
QA-UN1	2	2	1	1	1	0	0

1991

(excludes dedicated capital
modification contractors)

NUCLEAR DIVISION CODE 2 CONTRACTOR PERSONNEL GOAL/PERFORMANCE COMPARISON

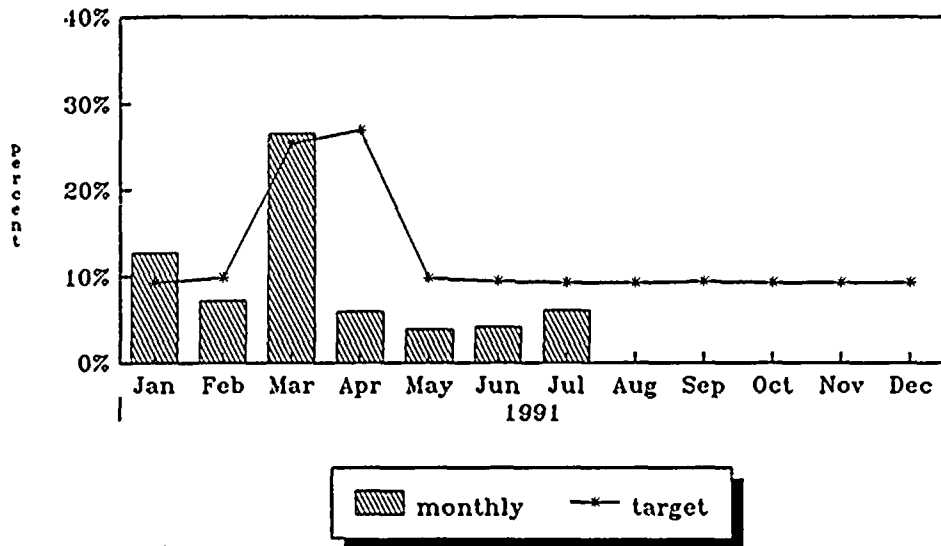


1991

GOAL
 CONTRACTORS-UN2
 CONTRACTORS-UN1

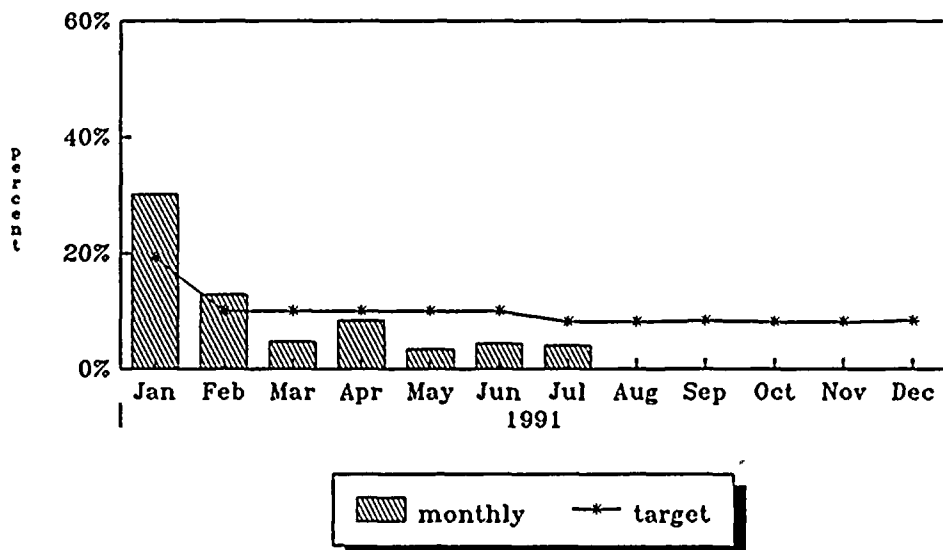
(excludes dedicated capital
modification contractors)

PI 13. NUCLEAR DIVISION UNIT 1
OVERTIME
(O.T. Hrs/S.T. Hrs)



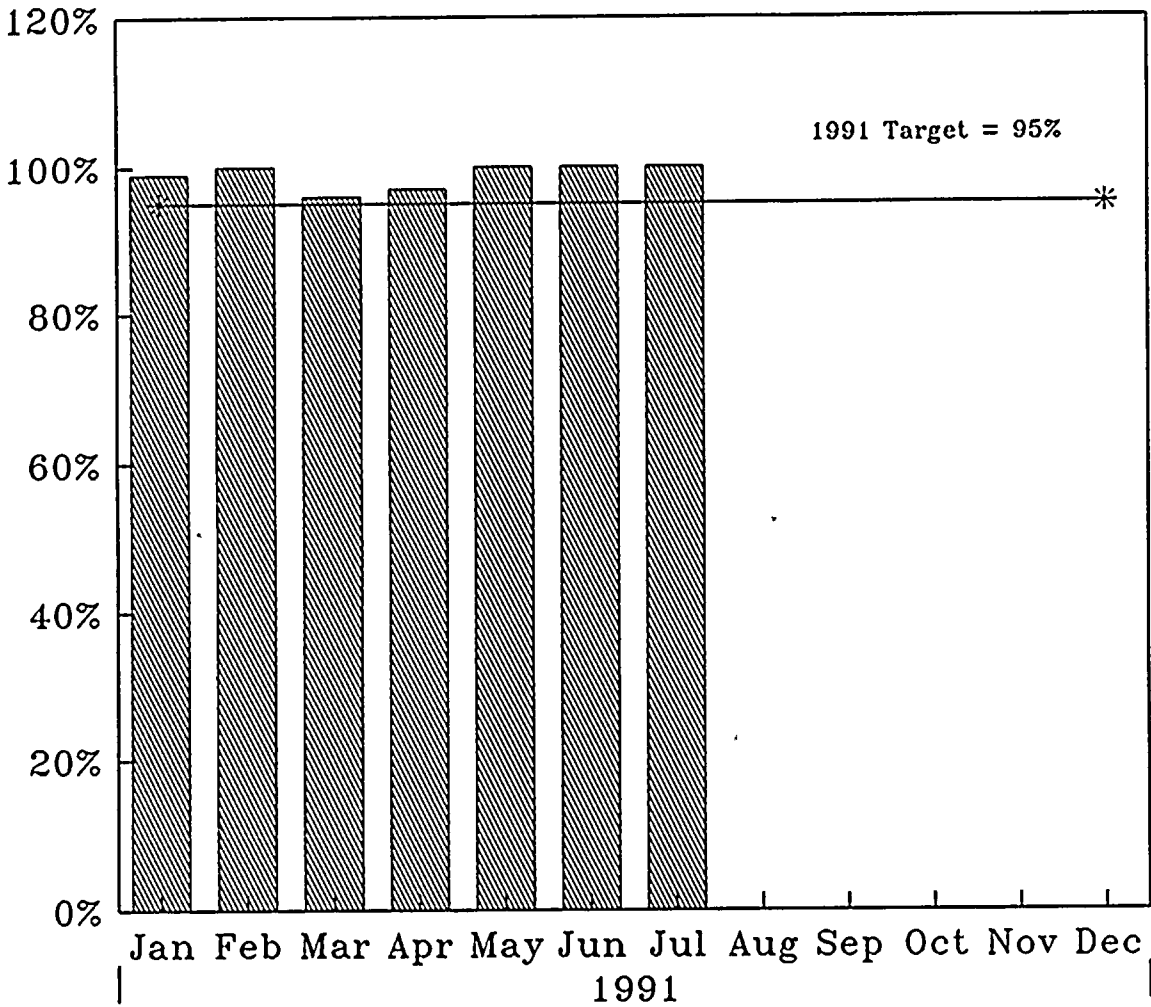
Data Accountability - Controller



PI 14. NUCLEAR DIVISION UNIT 2
OVERTIME
(O.T. Hrs/S.T. Hrs)



Data Accountability - Controller

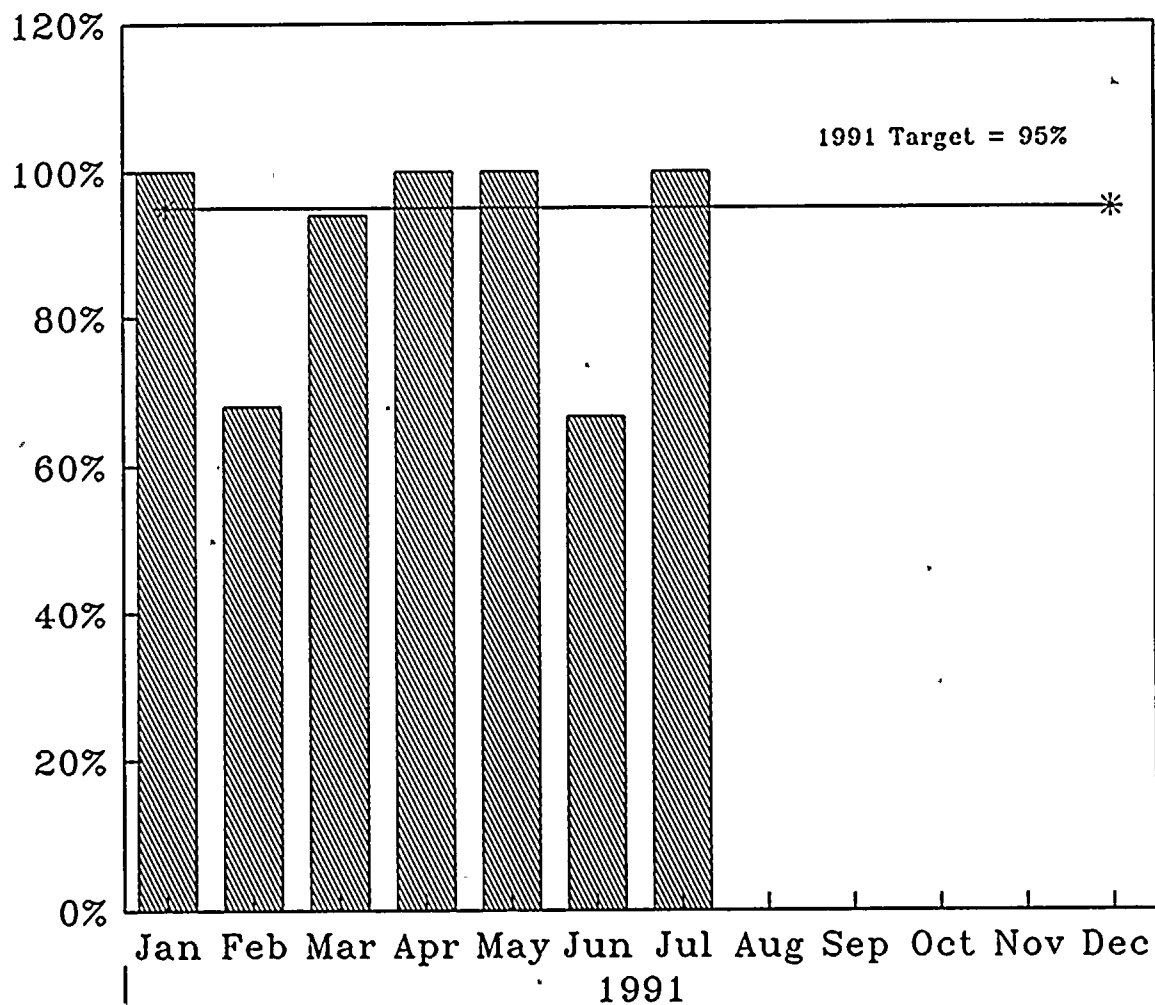
PI 15. NUCLEAR DIVISION PERCENT OF NRC COMMITMENTS MET ON TIME



 monthly  target

Data Accountability - Manager Licensing

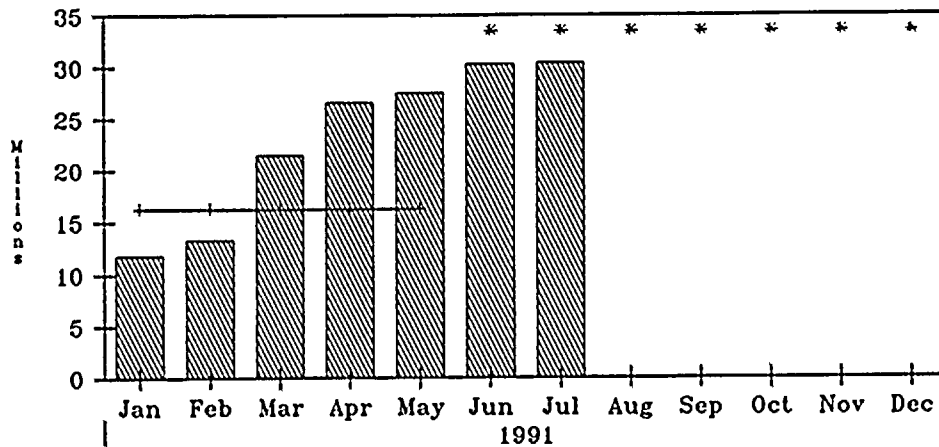
PI 16. NUCLEAR DIVISION PERCENT OF INPO COMMITMENTS MET ON TIME



■ monthly * target

Data Accountability - Manager IAG

PI 17. NUCLEAR DIVISION PSC MERIT GROSS ANNUAL VALUE



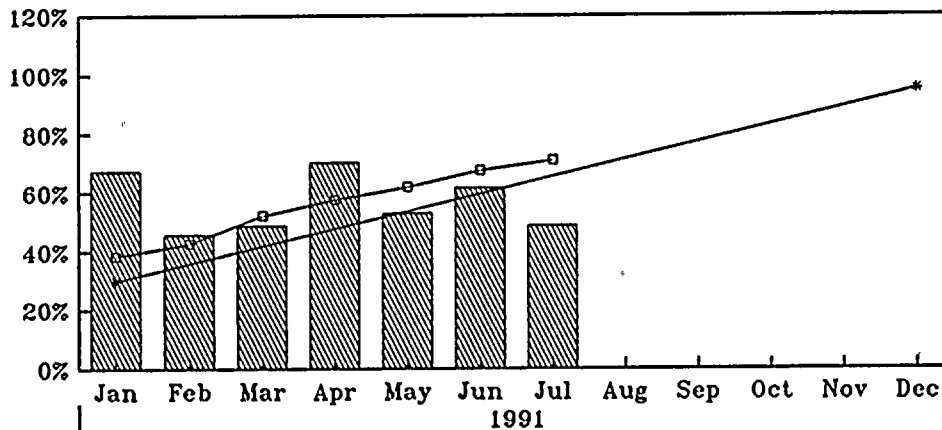
Gross Value

 May 31st Target

 Dec. 31st Target

Data Accountability - Prog. Dir. - Exec. Reports

PI 17A. NUCLEAR DIVISION PERCENT OF AVA COMMITMENTS MET ON TIME



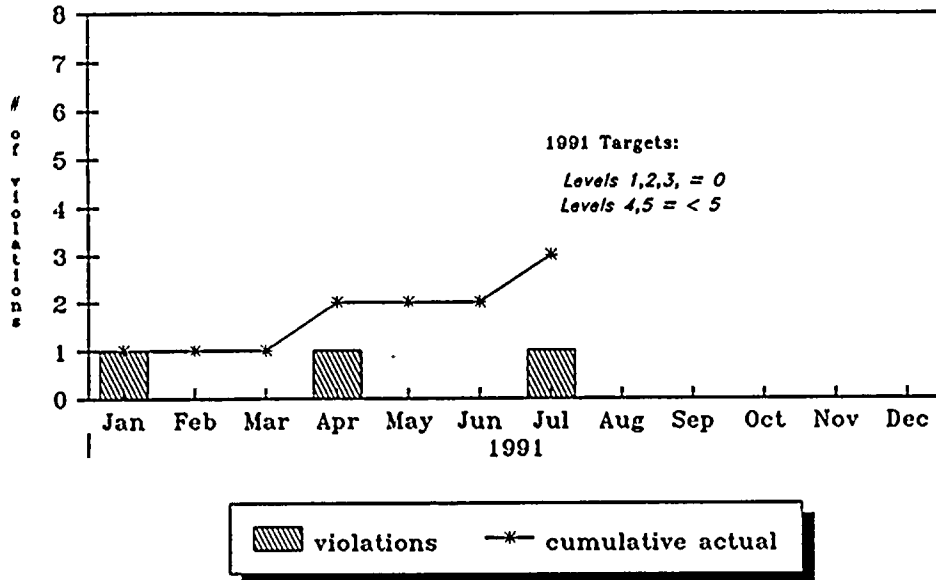
monthly

 cum target

 cum actual

Data Accountability - Prog Dir. - Exec. Reports

PI 18. NINE MILE POINT UNIT 1 INSPECTION REPORT NRC VIOLATIONS

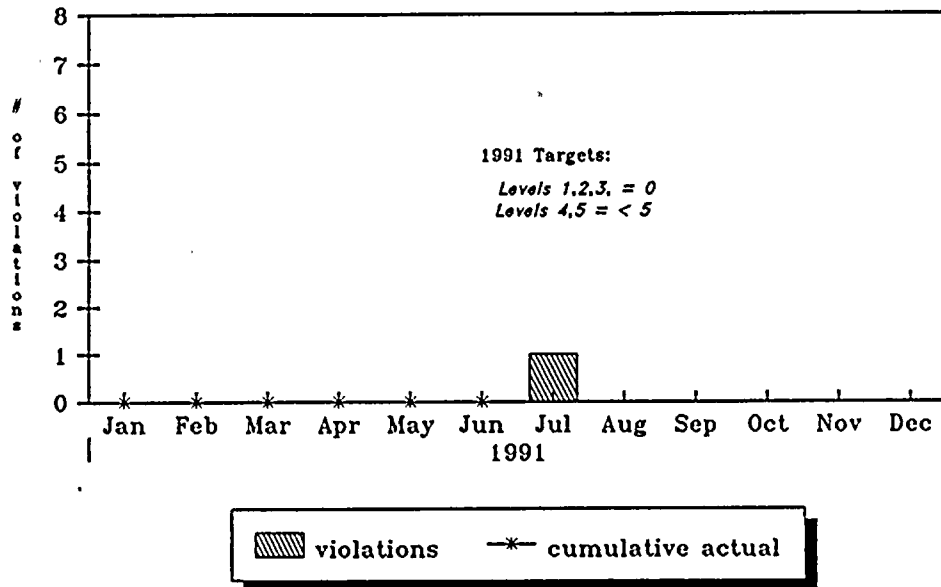


Data Accountability - Supr. Site Licensing

PI 18A. NINE MILE POINT UNIT 1 VIOLATIONS vs. FUNCTIONAL AREA

AREA	1991 SEVERITY LEVEL					DEV
	1	2	3	4	5	
OPERATIONS					1	
RADIOLOGICAL CONTROLS				1		
MAINTENANCE/SURVEILLANCE						
EMERGENCY PREPAREDNESS						
SECURITY SAFEGUARDS						
ENGINEERING/TECH. SUPPORT				1		
SAFETY ASSESSMENT/QUALITY VERIFICATION						
YTD TOTALS	0	0	0	2	1	0

PI 18. NINE MILE POINT UNIT 2 INSPECTION REPORT NRC VIOLATIONS



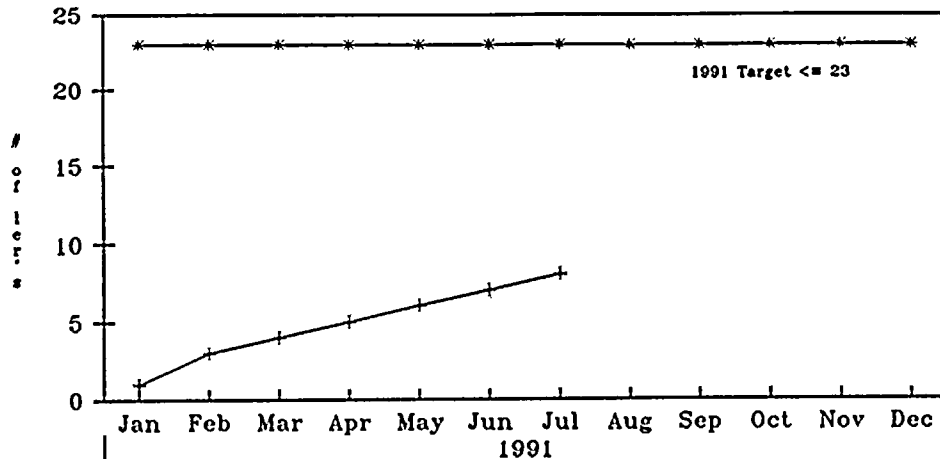
Data Accountability - Supv. Site Licensing

PI 18A. NINE MILE POINT UNIT 2 VIOLATIONS vs. FUNCTIONAL AREA

<u>AREA</u>	<u>1991 SEVERITY LEVEL</u>					<u>DEV</u>
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	
OPERATIONS					1	
RADIOLOGICAL CONTROLS						
MAINTENANCE/SURVEILLANCE						
EMERGENCY PREPAREDNESS						
SECURITY SAFEGUARDS						
ENGINEERING/TECH. SUPPORT						
SAFETY ASSESSMENT/QUALITY VERIFICATION						
YTD TOTALS	0	0	0	0	1	0

PI 19. NINE MILE POINT UNIT 1 LICENSEE EVENT REPORTS

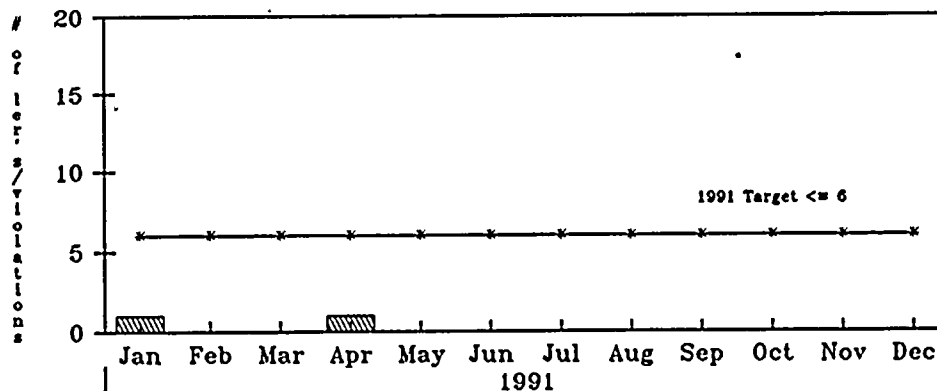
YTD = 8



Data Accountability - Supv. Regulatory Compliance

PI 20. NINE MILE POINT UNIT 1 LICENSEE EVENT REPORTS/VIOLATIONS RESULTING FROM PERSONNEL ERRORS ONLY

YTD = 2

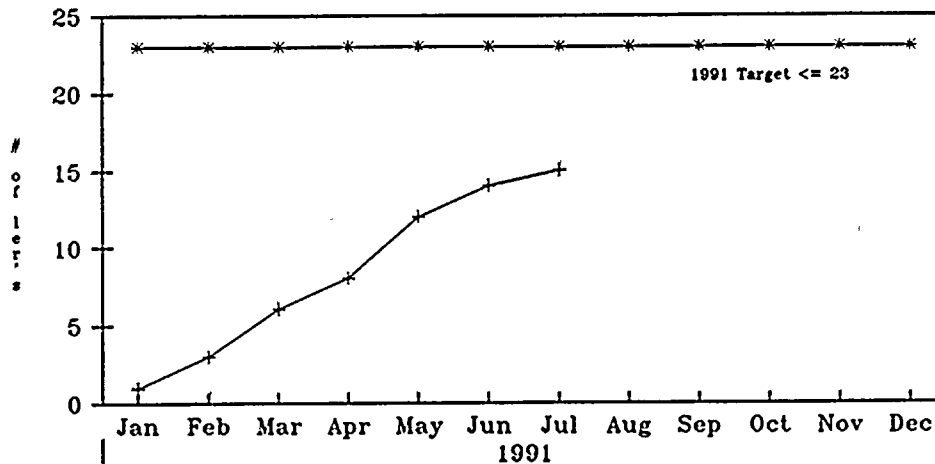


Data Accountability - Supv. Regulatory Compliance

Goal of < 6 is a reduction of 3 from 1990.

PI 19. NINE MILE POINT UNIT 2 LICENSEE EVENT REPORTS

YTD = 15

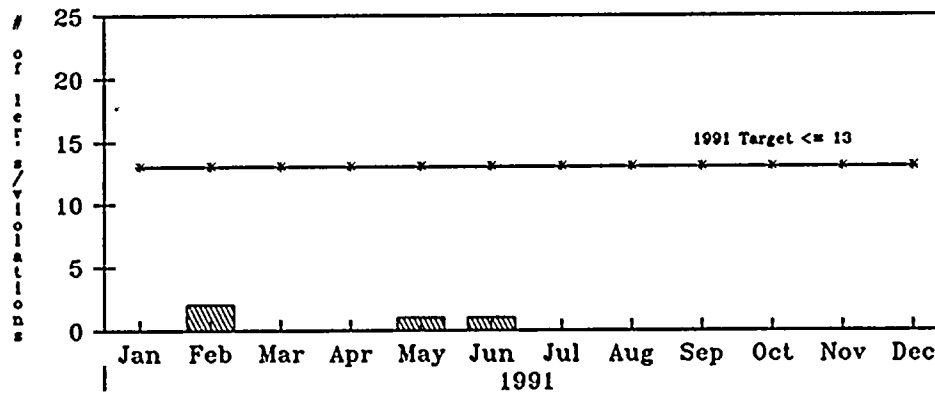


+ cumulative reports * target

Data Accountability - Supv. Regulatory Compliance

PI 20. NINE MILE POINT UNIT 2 LICENSEE EVENT REPORTS/VIOLATIONS RESULTING FROM PERSONNEL ERRORS ONLY

YTD = 4



▨ reports/violations * target

Data Accountability-Supv. Regulatory Compliance

Goal of < 13 is a reduction of 3 from 1990.

NRC ACTIVITIES

VIOLATIONS

Unit 1 - One - Combined Inspection 91-12-01
Control of Temporary
Modifications

Unit 2 - One - Combined Inspection 91-12-01
Control of Temporary
Modifications

ENFORCEMENT ACTION

Unit 1 - None

Unit 2 - None

INSPECTIONS

91-12 Combined Units Resident Inspection
Completed July 31st.

91-15/91-13 Fitness for Duty Inspection.

91-14 Water Chemistry Inspection.

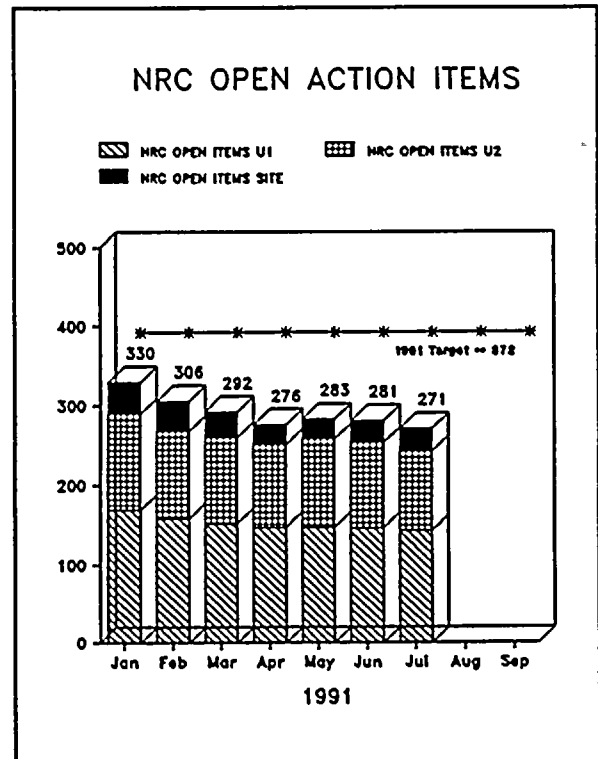
There have been fifteen (15) inspections to date in 1991.

SCHEDULED INSPECTIONS

August - Radiological Controls Inspection.

August - Check valve Pilot audit at NMP2 (Not an official inspection).

Sept./Oct. - Electrical Distribution System Functional Inspection.



INPO STATUS

Action items associated with the commitments for the 1990 August and 1989 Site Evaluations have been identified and accountability has been assigned. All commitments associated with the Spring 1989 Corporate Evaluation have been completed. There are currently three (3) open commitments as a result of INPO Evaluations.

Nine Mile Site - Status of INPO commitments

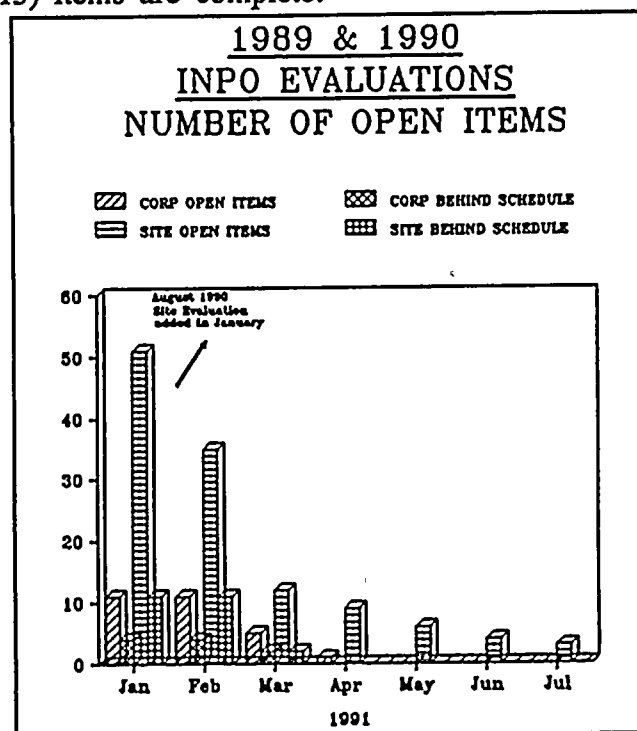
- There are a total of 117 action items in response to the INPO 1990 August evaluation.
 - Through July, one hundred fifteen (115) items are complete.
 - NMPC committed to ninety-four (94) action items in response to the INPO 1989 Spring Plant Evaluation.
- Through July, ninety-three (93) items are complete.

Corporate - Status of INPO commitments

- Complete

Schedule

- W. Thomson and P. Swafford will attend a Radiation Protection Workshop August 7 - August 9.
- K. Dahlberg and M. McCormick Jr., will host INPO's Senior Plant Managers Course August 12 - August 16.
- R. Watson will participate as a Maintenance peer evaluator at Quad Cities Plant on August 12 - August 30.
- J. Conway and R. Tessier will review Plant Experience Report at INPO Headquarters August 15.



INPO STATUS (Cont'd)

- The next site evaluation will be from September 9, 1991 through September 20, 1991, and the next corporate evaluation will be from September 30, 1991 through October 4, 1991.

PSC ACTIVITIES

- PSC staff has conducted an audit of Phase I Merit Results, and submitted their recommendations for Commission approval on August 7, 1991. Final results will be provided next month.
- Phase II Merit (June-December 1991) goals for Nine Mile 1 and 2 Nuisance Annunciators and Nine Mile 2 Work Request have been revised by responsible departments and the PSC staff.
- Nine Mile 2 Performance Incentive filing date September 6, 1991 - on schedule.

NUCLEAR DIVISION
AVA Implementation Monthly Status Report

July 1991

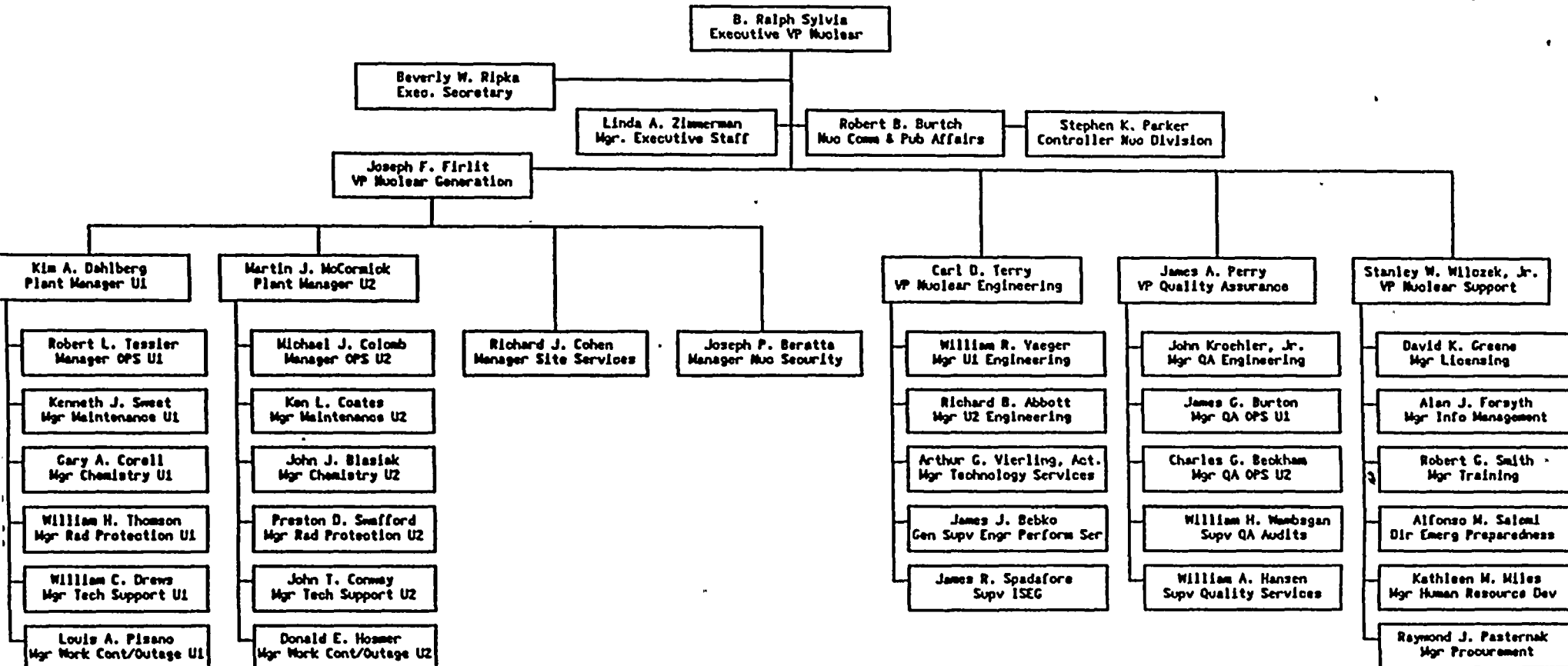
<u>IDEAS</u>	<u>This Month</u>	<u>To Date</u>
Ideas Implemented	72	1532
Implementation delayed (see current month exceptions below):	59	
Overdue ideas (see current month exceptions below):	2	
Ideas No Longer Workable (see current month exceptions below):	21	315
Open Further Study (of 158)	2	39
Total Nuclear Division "Go" (includes "FS" ideas since made "Go")		2302
<u>AVA PROJECTED VALUE</u>	<u>This Month</u>	<u>To Date</u>
Net Savings Captured ¹ :	-\$8,700	\$37,010,200
Uncaptured savings ² :	\$40,900	\$1,706,250
1991 Year-end target:		\$50,214,600
Total Nuclear Division AVA target:		\$61,052,530
<u>PSC MERIT</u>	<u>This Month</u>	<u>To Date</u>
Gross Annual Value of Ideas Implemented:	\$47,300	\$30,354,900
Merit Goal (Dec. 1991)(Gross annual value excluding Unit 2 co-tenant share):		\$33,500,000
<u>POSITIONS (FTE'S)</u>	<u>This Month</u>	<u>To Date</u>
Captured (see current month detail below):	-7	-155
Added (see current month detail below):	0	+49
Overtime FTE's captured:	0	-57.30
Total captured to date:	-7	-163.30
Total Nuclear Division AVA target (116 positions, 125.8 overtime):		-241.80

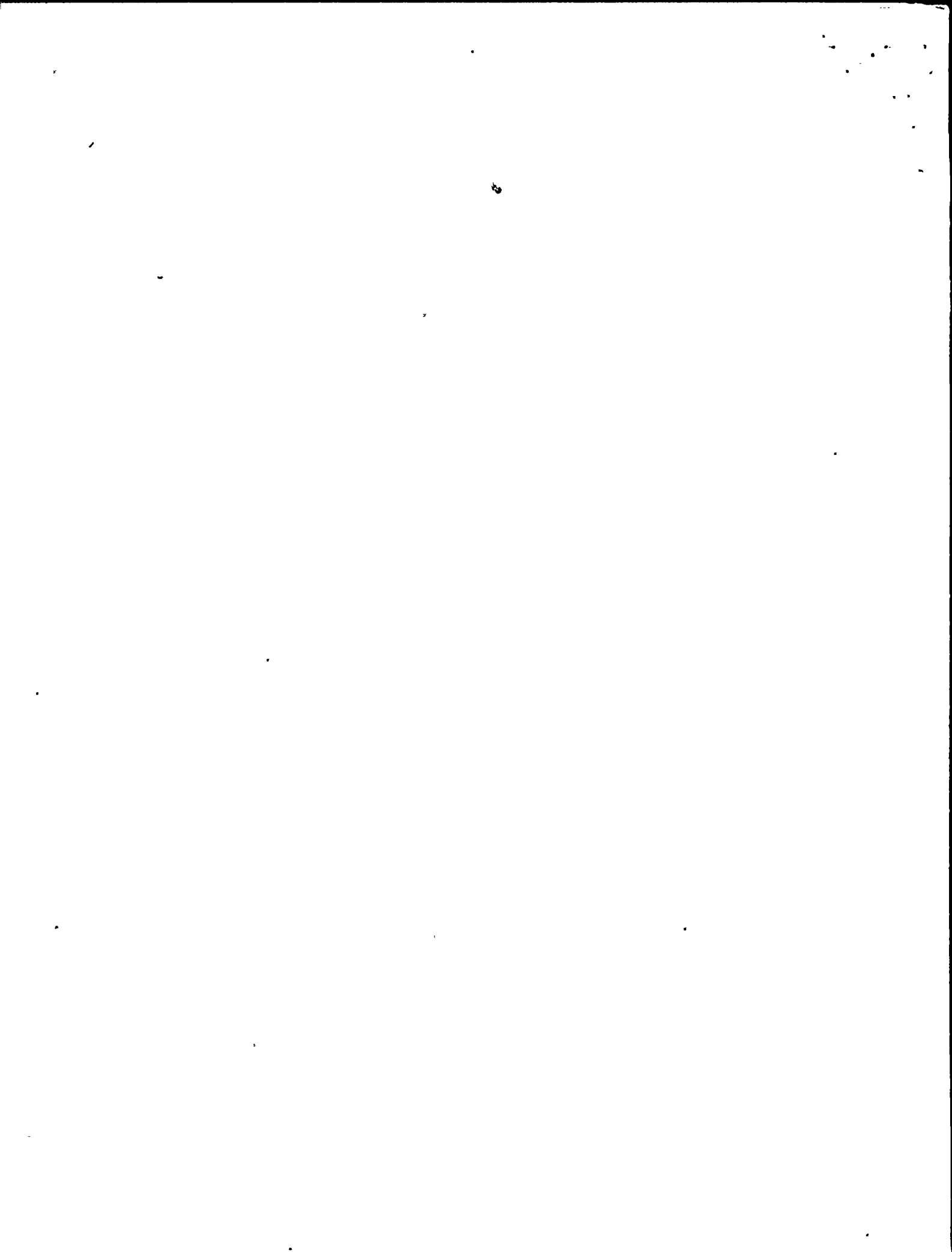
¹ Indicates annualized savings that have started to accrue. Decreased this month due to an adjustment that eliminated double counting of cycle 1 and cycle 3 savings in the Construction Services AVA unit.

² Indicates annualized savings that will not be captured due to ideas that are no longer considered workable. Also includes any changes in original value in savings for ideas which have been implemented. Please note this was only reductions in original value on previous reports.

MPC NUCLEAR ORGANIZATION

June 13, 1991





NIAGARA MOHAWK NUCLEAR DIVISION
MONTHLY PERFORMANCE
EXECUTIVE REPORT

DEFINITIONS

CAPACITY FACTOR (MDC)

The capacity factor, maximum dependable capacity (MDC) is computed by dividing the net electrical energy generated (gross electrical output of the unit minus the station service loads) by the product of maximum dependable capacity times the gross hours in the reporting period.

CHEMISTRY PERFORMANCE INDEX (CPI) - Reactor Water

The reactor water chemistry index compares the concentration of selected parameters (chloride, sulfates and conductivity) to industry-accepted values for those impurities. The monthly average of the daily high measurements for each impurity is divided by the accepted value for the impurity, and the sum of these ratios is normalized to 1.0. The "accepted values" are the "achievable values" defined in the BWR Owners Group Guidelines. This indicator applies only during power operation, (i.e., greater than 10 percent power).

$$\frac{[(Cl)/15 \text{ ppb} + (SO_4)/15 \text{ ppb} + \text{Conductivity}/0.2]}{3}$$

COLLECTIVE RADIATION EXPOSURE

The total amount of whole-body radiation exposure received by all personnel (including utility employees, contractors and visitors) at nuclear units during each calendar year.

FUEL RELIABILITY

The indicator is defined as the combined steady-state off-gas activity rate (microcuries/second) measured at the steam jet air ejector outlet (Recombiner Discharge) for the six primary noble gas mission products, corrected for the tramp uranium (recoil release) contribution. Tramp uranium is fuel which has been deposited on reactor core internals from previous defective fuel or is present on the surface of fuel elements from the manufacturing process.

Steady state is defined as continuous operations above 85 percent power for at least seven days.

The following data is required to determine each unit's value for this indicator:

BWRs the activity rate (microcuries/second) of the krypton-85m, krypton-87, krypton-88, xenon-133, xenon-135 and xenon-138 isotopes.

LICENSEE EVENT REPORTS

Reports which identify events which meet the criteria of 1-CFR50.73.

NIAGARA MOHAWK NUCLEAR DIVISION
MONTHLY PERFORMANCE
EXECUTIVE REPORT

LOST TIME ACCIDENT RATE

A lost time accident is any injury which involves days away from work (at least one full work day other than the day of the injury).

The Lost Time Accident Rate is the number of lost time accidents per 200,000 man-hours worked (100 man-years).

NON-OUTAGE POWER BLOCK BACKLOG

The total number of corrective maintenance work requests which do not require an outage to be worked on. Power block work requests are those associated with the safe, reliable generation of electricity and apply primarily to plant systems.

NRC VIOLATIONS BY DATE OF DISCOVERY

The number of violations known to have occurred or were identified, including pending violations not yet issued by the NRC, by month of occurrence/identification.

PERCENT OF COMMITMENTS TO INTERFACING AGENCIES MET ON TIME

A measure of responsiveness to interfacing agencies (e.g. NRC, INPO, PSC). The percentage of instances in the reporting period where a commitment noted in meeting minutes or formal written communications between the Nuclear Division and an interfacing agency were completed within the stated schedule.

SAFETY SYSTEM PERFORMANCE

The performance indicator is calculated separately for each of the BWR systems. The safety system calculated separately for each of the BWR systems. The safety system performance indicator is defined for each safety system as the sum of the unavailabilities, due to all causes, of the components in the system during a time period divided by the number of trains in the system. This definition is further explained as follows:

component unavailability: the fraction of time that a component is unable to perform its intended function when it is required to be available for service--The component unavailability is the ratio of the hours the component was unavailable (unavailable hours) to the hours the system was required to be available for service. The safety systems included for Unit 1 are emergency AC power, high pressure coolant injection and the emergency condensers, and the Safety Systems for Unit 2 are emergency AC power, Reactor Core Isolation Cooling, Residual Heat Removal, and High Pressure Core Spray.

THERMAL PERFORMANCE

Is defined as the ratio of the design gross heat rate (corrected) to the adjusted actual gross heat rate.

= Design gross heat rate corrected: is determined by correcting the initial plant design gross heat rate following plant modifications or operating deviations.

NIAGARA MOHAWK NUCLEAR DIVISION
MONTHLY PERFORMANCE
EXECUTIVE REPORT

Thermal Performance is determined as follows:

$$\frac{\text{design gross heat rate (corrected)} \times 100\%}{\text{adjusted actual gross heat rate}}$$

UNIT CAPABILITY FACTOR

Unit capability factor is defined as the ratio of the available energy generation over a given time period to the reference energy generation over the same time period, expressed as a percentage. Both of these energy generation terms are determined relative to reference ambient conditions.

Available energy generation is the energy that could have been produced under reference ambient conditions considering only limitations within control of plant management, i.e., plant equipment and personnel performance, and work control.

Reference energy generation is the energy that could be produced if the unit were operated continuously at full power under reference ambient conditions.

Reference ambient conditions are environmental conditions representative of the annual mean (or typical) ambient conditions for the unit.

The unit capability factor is determined for each period as shown below:

$$\text{value for a unit} = \frac{(\text{REG} - \text{PEL} - \text{UEL}) \times 100\%}{\text{REG}}$$

where REG = reference energy generation for the period
PEL = total planned energy losses for the period
UEL = total unplanned energy losses for the period

UNPLANNED AUTOMATIC SCRAMS PER YEAR (7,000 CRITICAL HOURS)

An actuation of the reactor protection system that results in a scram signal at any time when the unit is critical. Scrams that are planned as part of special evolutions or tests are not included in this definition.

UNPLANNED CAPABILITY LOSS

Unplanned capability loss factor is defined as the ratio of the unplanned energy losses during a given period of time, to the reference energy generation, expressed as a percentage.

Unplanned energy loss is energy that was not produced during the period because of unplanned shutdowns, outage extensions, or unplanned load reductions due to causes under plant management control. Causes of energy losses are considered to be unplanned if they are not scheduled at least four weeks in advance. Causes considered to be under plant management control are further defined in the clarifying notes.

Reference energy generation is the energy that could be produced if the unit were operated continuously at full power under reference ambient conditions throughout the period. Reference ambient conditions are environmental conditions representative of the annual mean (or typical) ambient conditions for the unit.

NIAGARA MOHAWK NUCLEAR DIVISION
MONTHLY PERFORMANCE
EXECUTIVE REPORT

Reference energy generation is the energy that could be produced if the unit were operated continuously at full power under reference ambient conditions throughout the period. Reference ambient conditions are environmental conditions representative of the annual mean (or typical) ambient conditions for the unit.

The unplanned capability loss factor is determined for each period as shown below:

$$\text{value for a unit} = \frac{\text{UEL} \times 100\%}{\text{REG}}$$

Where UEL = total unplanned energy losses for the period

REG = reference energy generation for the period

UNPLANNED SAFETY SYSTEM ACTUATION

Occurs when a setpoint for the system is reached or when a spurious/inadvertent signal is generated and major equipment is actuated. The performance indicator, Unplanned Safety System Actuation, is the sum of the following actuations:

Emergency Core Cooling System actuations that result from off-normal conditions (setpoint reached, or spurious/inadvertent signals. HPCI actuations due to Turbine Trip are not included.

Emergency AC Power actuations as a result of loss of power to a safeguard's bus. Spurious/inadvertent starts of emergency diesel generators are not counted.

VOLUME OF LOW LEVEL SOLID RADWASTE

Average annual volume of Low-Level solid Radioactive Waste Generated (shipped or ready for shipment final form) per unit

- Low level solid radioactive waste includes dry, contaminated materials (e.g. trash, wood, tools), waste solidification system output, and dewatered resins, filters, and sludge. Spent nuclear fuel is not included.