

June 16, 1992

See Rpt.

Docket No. 50-400
License No. NPF-63

*official
copy*

Carolina Power and Light Company
ATTN: Mr. R. A. Watson
Senior Vice President
Nuclear Generation
P. O. Box 1551
Raleigh, NC 27602

Gentlemen:

SUBJECT: MEETING SUMMARY - SHEARON HARRIS

This refers to the meeting conducted at your request in the Region II Office on June 9, 1992. The purpose of the meeting was for you to present a self-assessment of the Shearon Harris facility. A list of attendees and a copy of your handout are enclosed.

It is our opinion that this meeting was beneficial in that it provided a better understanding of your established goals, as well as the actions you have taken with respect to improving plant performance.

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

Should you have any questions concerning this matter, please contact us.

Sincerely,

Original signed by:
Luis A. Reyes

Luis A. Reyes, Director
Division of Reactor Projects

Enclosures:

1. List of Attendees
2. Licensee Handout

cc w/encls: (See page 2)

MAA

11

Carolina Power and Light Company

2

June 16, 1992

cc w/encls:

G. E. Vaughn
Vice President
Harris Nuclear Project
P. O. Box 165
New Hill, NC 27562

C. S. Hinnant
Plant General Manager
Harris Nuclear Plant
P. O. Box 165
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C. S. Olexik, Jr., Manager
Regulatory Compliance
Harris Nuclear Project
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H. Ray Starling
Manager - Legal Department
Carolina Power and Light Co.
P. O. Box 1551
Raleigh, NC 27602

Dayne H. Brown, Director
Division of Radiation Protection
N. C. Department of Environment,
Health & Natural Resources
P. O. Box 27687
Raleigh, NC 27611-7687

bcc w/encls:

H. Christensen, RII
N. Le, NRR
Document Control Desk

NRC Resident Inspector
U.S. Nuclear Regulatory Commission
Route 1, Box 315B
New Hill, NC 27562

RII:DRP

RC
RCarroll:tj
06/16/92

RII:DRP

H
HChristensen
06/16/92

RII:DRP

D
DVerrelli
06/16/92

ENCLOSURE 1

LIST OF ATTENDEES

Carolina Power and Light

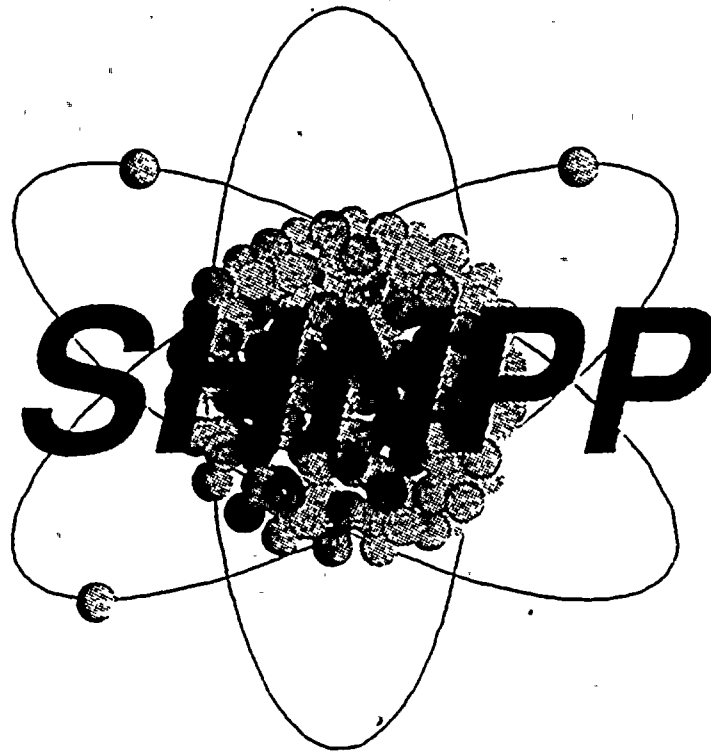
G. E. Vaughn, Vice President, Harris Nuclear Project
C. S. Hinnant, Plant General Manager, Harris Nuclear Project
T. Morton, Manager, Maintenance
C. S. Olexik, Manager, Regulatory Compliance
R. W. Prunty, Jr., Manager, Harris Licensing
J. W. Moyer, Manager, Project Assessment

Nuclear Regulatory Commission

S. D. Ebnetter, Regional Administrator, RII
L. A. Reyes, Director, Division of Reactor Projects (DRP), RII
A. F. Gibson, Director, Division of Reactor Safety (DRS), RII
**B. S. Mallett, Deputy Director, Division of Radiation Safety
and Safeguards, (DRSS), RII**
J. R. Johnson, Deputy Director, DRP, RII
D. M. Verrelli, Chief, DRP, Branch 1, RII
H. O. Christensen, Chief, DRP, Section 1A, RII
N. Le, Project Manager, Office of Nuclear Reactor Regulation (NRR)
M. Shannon, Resident Inspector, DRP, RII
G. R. Wiseman, Reactor Inspector, DRS, RII

ENCLOSURE 2

HARRIS NUCLEAR PROJECT



CAROLINA POWER & LIGHT

JUNE 9, 1992



4
3



HARRIS NUCLEAR PROJECT

SELF ASSESSMENT MEETING

JUNE 9, 1992

AGENDA

INTRODUCTION/OVERVIEW

G. E. VAUGHN

**PLANT OPERATIONS
MAINTENANCE/SURVEILLANCE
RADIOLOGICAL CONTROLS
EMERGENCY PREPAREDNESS
SECURITY
ENGINEERING/TECHNICAL
SUPPORT
SAFETY ASSESSMENT/QUALITY
VERIFICATION**

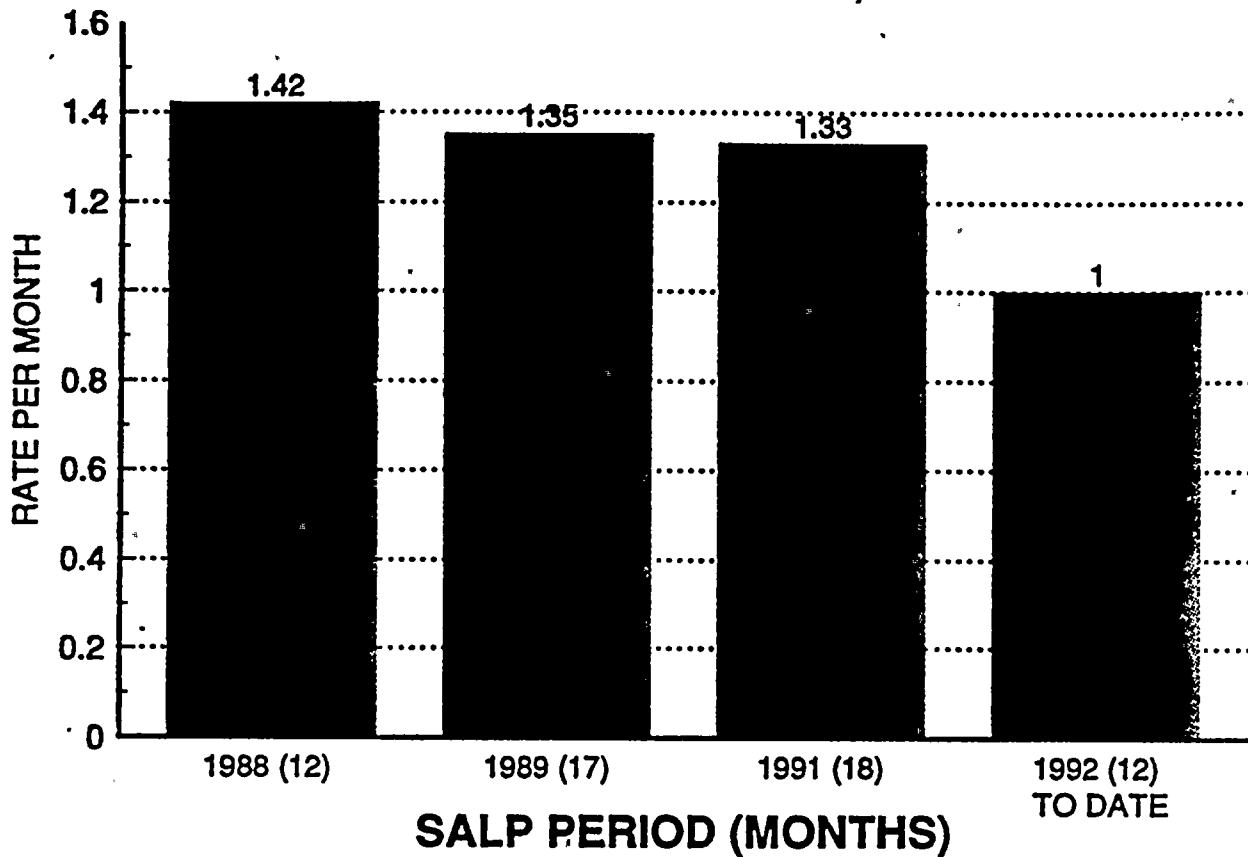
SCOTTY HINNANT

CONCLUDING REMARKS

G. E. VAUGHN

**HARRIS PLANT OVERALL
PERFORMANCE DURING
THIS SALP PERIOD IS OUR
BEST TO DATE.**

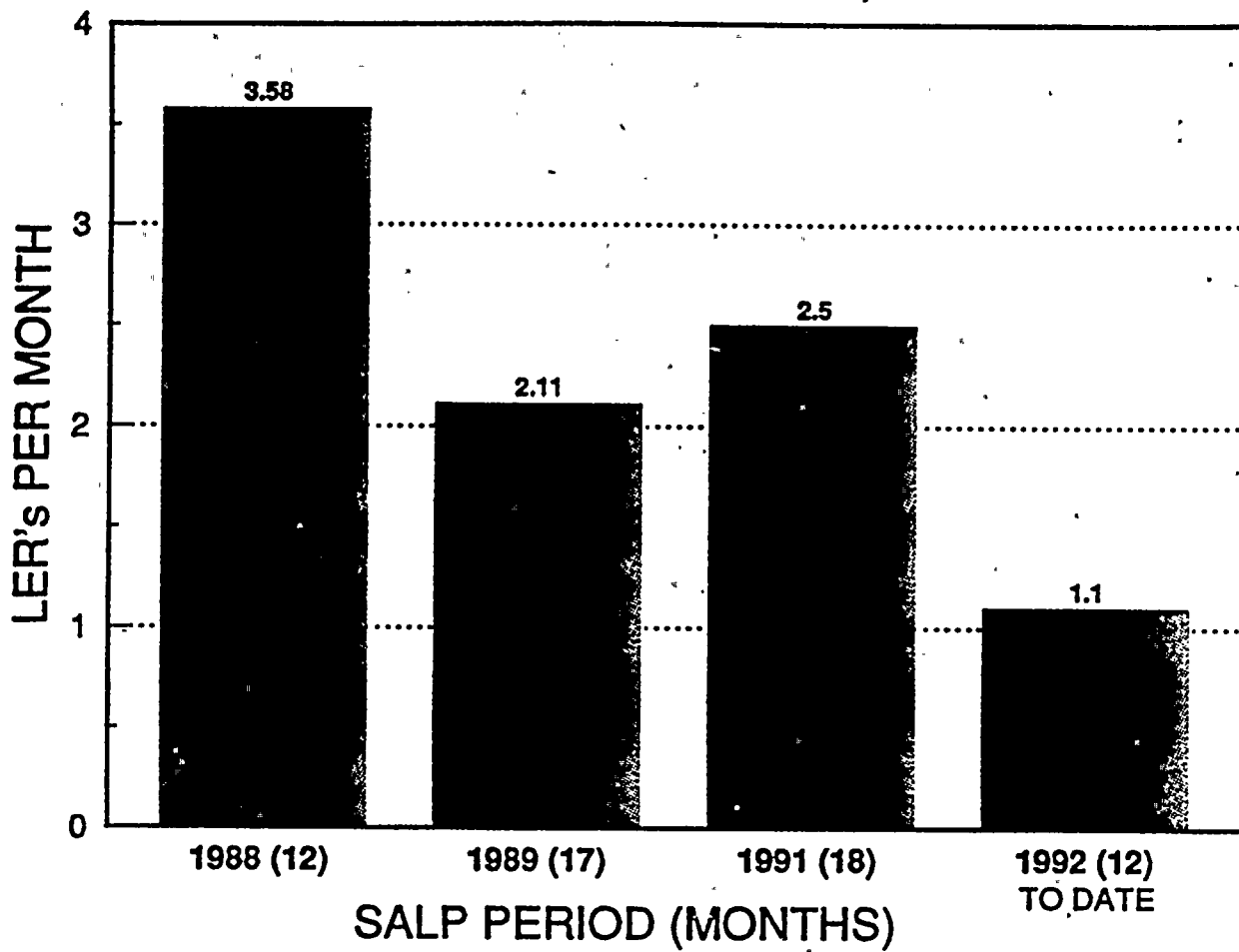
NRC VIOLATION SUMMARY



VIOLATIONS BY LEVEL

	I	II	III	IV	V
1988				15	2
1989			2	20	1
1991			1	22	1
1992				12	

LER SUMMARY



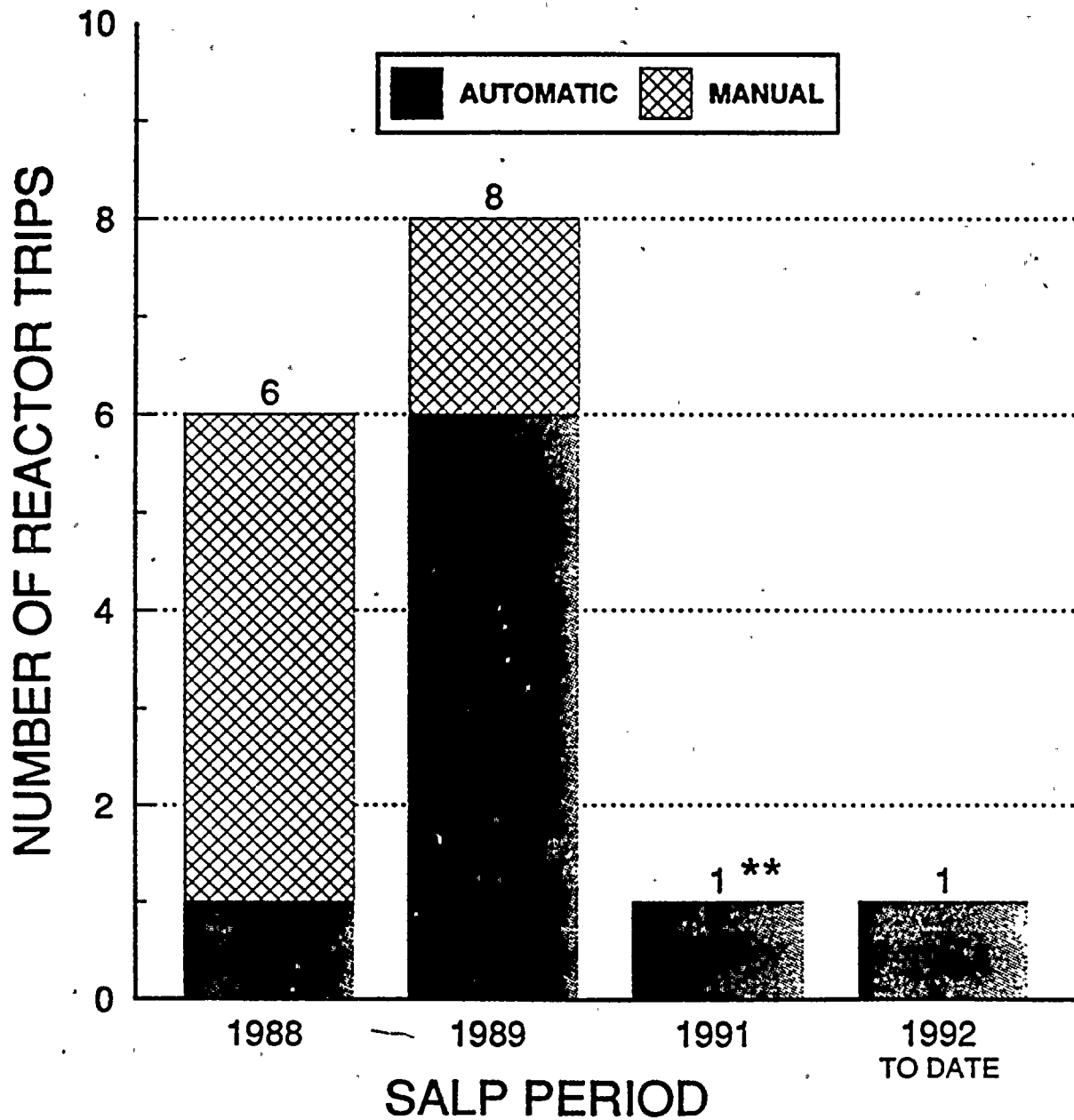
SALP PERIOD (MONTHS)	TOTAL LER's
1988 (12)	43
1989 (17)	36
1991 (18)	45
1992 (12)	13



2
1
2

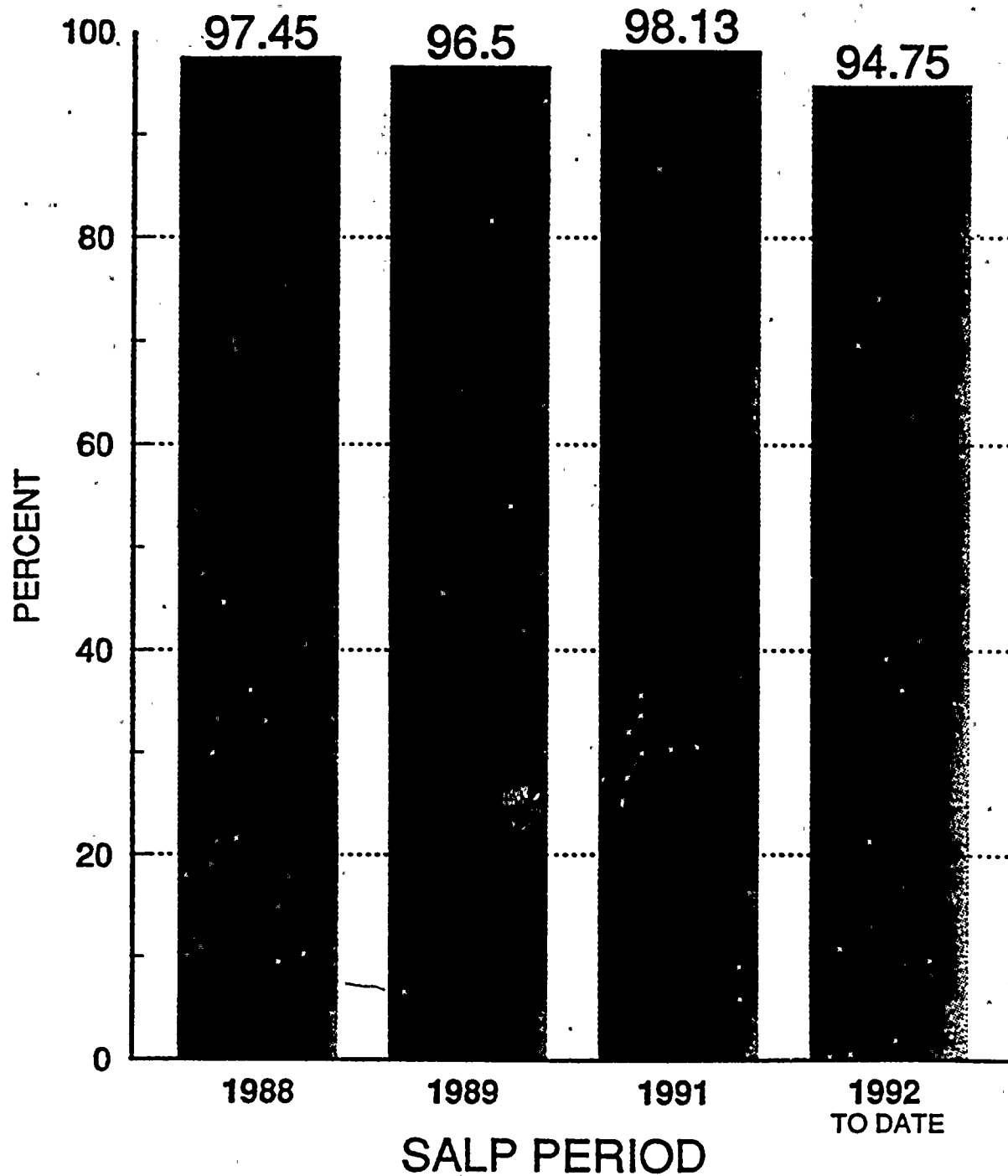


REACTOR TRIPS

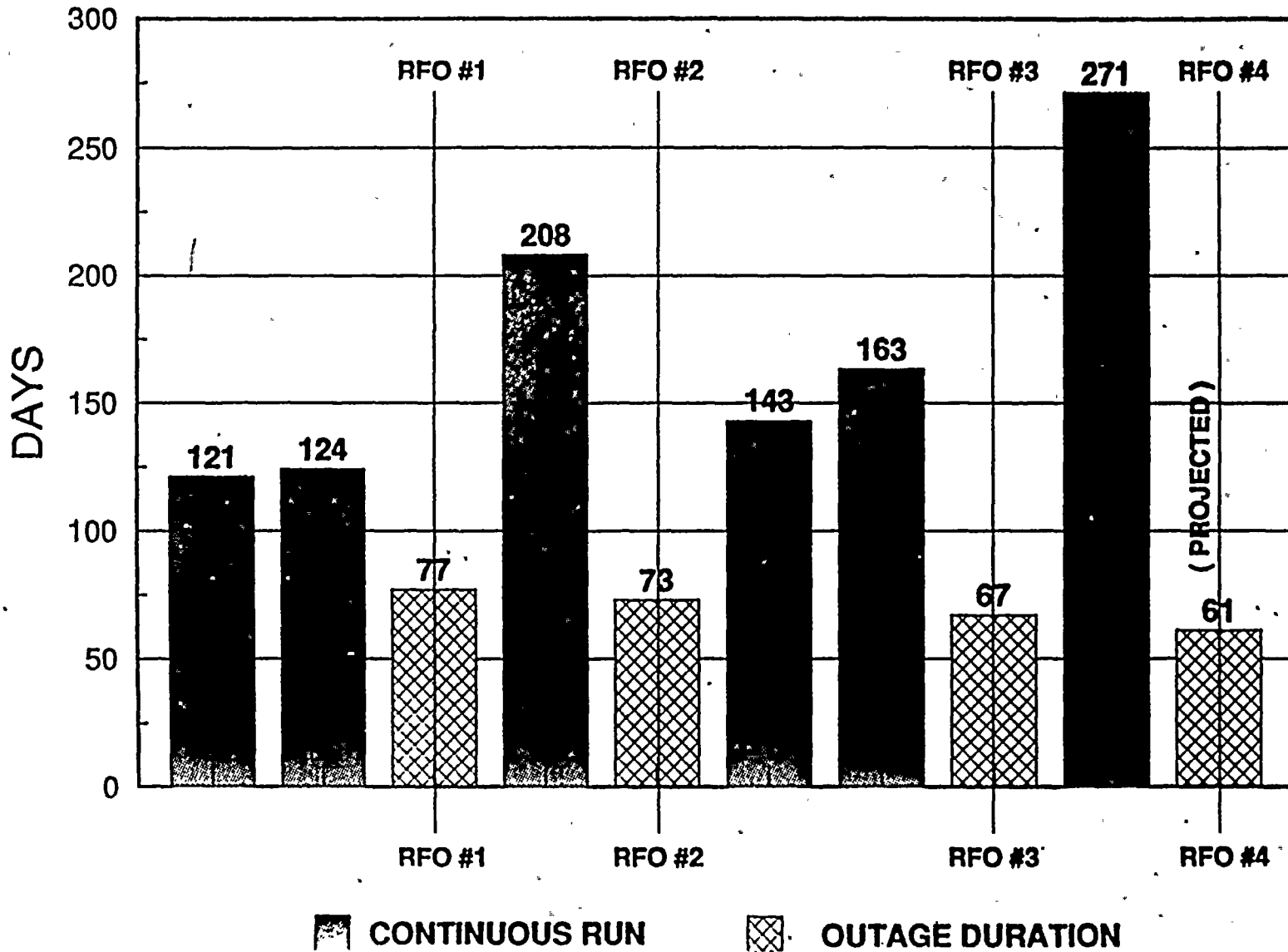


** AUTOMATIC TRIP NOT AT POWER

SAFETY SYSTEMS AVAILABILITY



OUTAGE PERFORMANCE QUALITY RUNS > 100 DAYS



OUTAGE PERFORMANCE

RFO #1 RFO #2 RFO #3
CYCLE #2 CYCLE #3 CYCLE#4

REFUELING OUTAGE (DAYS)	77	73	67
CYCLE CAPACITY FACTOR (%)	91.3	85.6	95.4

PREVIOUS SALP COMMENTS

- **IMPROVE RADIATION MONITOR PERFORMANCE**
- **KEEP PERSONNEL CONTAMINATION EVENTS DOWN**
- **ENHANCE POST MAINTENANCE TESTING**
- **STRENGTHEN SELF ASSESSMENT**

FUTURE IMPROVEMENTS

● **PEOPLE**

● **MANAGEMENT**

● **PLANT**

PLANT
OPERATIONS

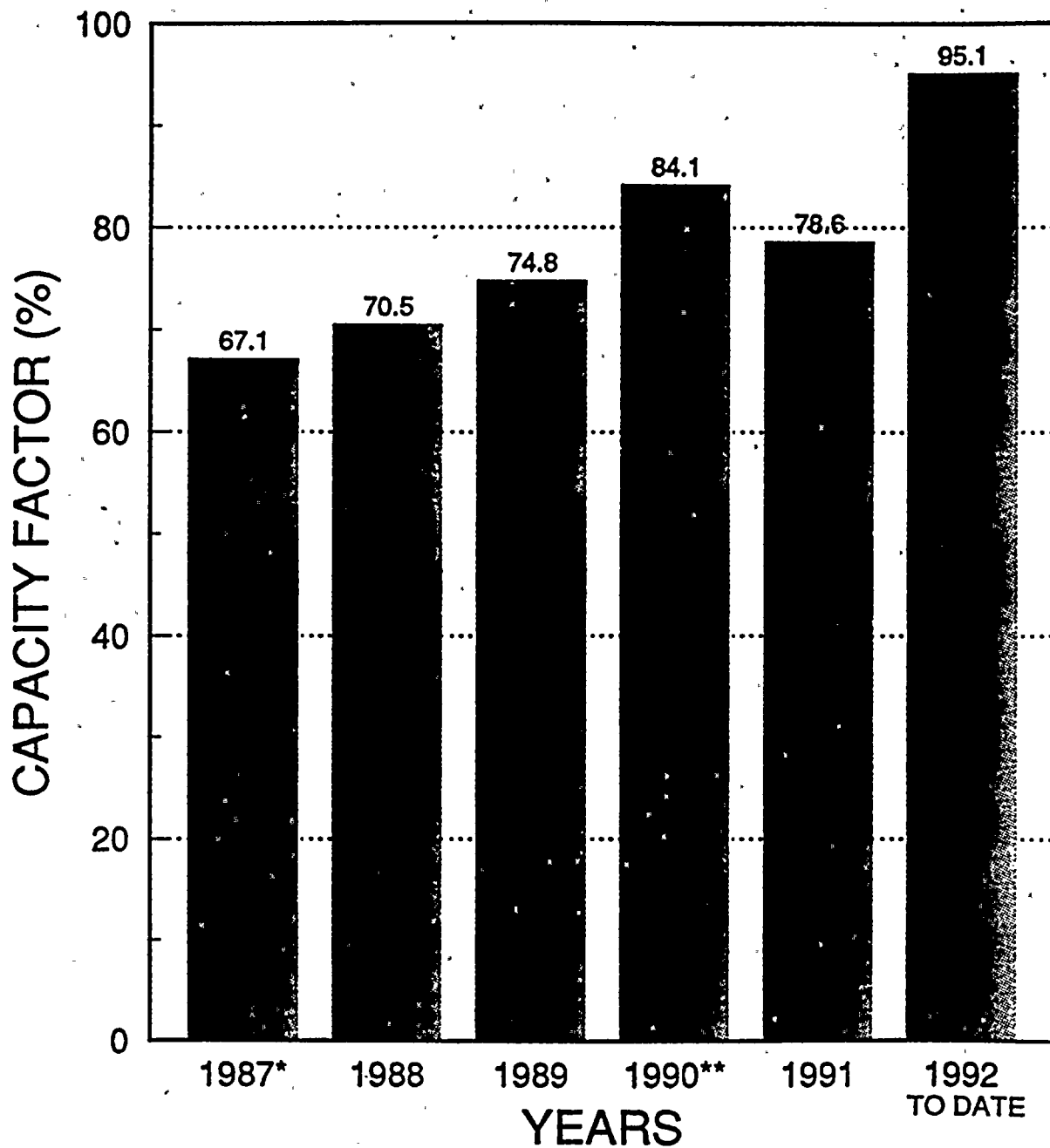
OPERATIONS OVERVIEW

- **PERFORMANCE**
- **OPERATIONS PHILOSOPHY**
- **FIRE PROTECTION**
- **FUTURE IMPROVEMENTS**

PERFORMANCE

- ONE REACTOR TRIP WHILE CRITICAL
- 271 DAY QUALITY RUN
- DISCRETIONARY SHUTDOWN FOR SMALL RCS LEAK
- NO OPERATOR PERSONNEL ERROR LER's
- ALL 8,SRO CANDIDATES SUCCESSFUL
- CONTINUED GOOD RESULTS IN REQUAL EXAMS

CAPACITY FACTOR



* 5/2 - 12/31/87

** NO REFUELING OUTAGE



ENGINEERING/
TECHNICAL SUPPORT



ENGINEERING/TECHNICAL SUPPORT OVERVIEW

- RFO-4 RELIABILITY INITIATIVES
- PERSONNEL
- PERFORMANCE
- PROGRAMS
- TRAINING
- FUTURE IMPROVEMENTS



SECURITY
INVESTMENTS FOR
FUTURE IMPROVEMENTS

PEOPLE

- **ADVANCED TACTICAL TRAINING COURSE DEVELOPMENT**
- **CONTINUED REDUCTION IN GUARD FORCE ATTRITION RATE**

MANAGEMENT

- **EMPHASIS ON COACHING BY SECURITY MANAGEMENT/SUPERVISION**
- **INCREASED SUPERVISORY TRAINING**

PLANT

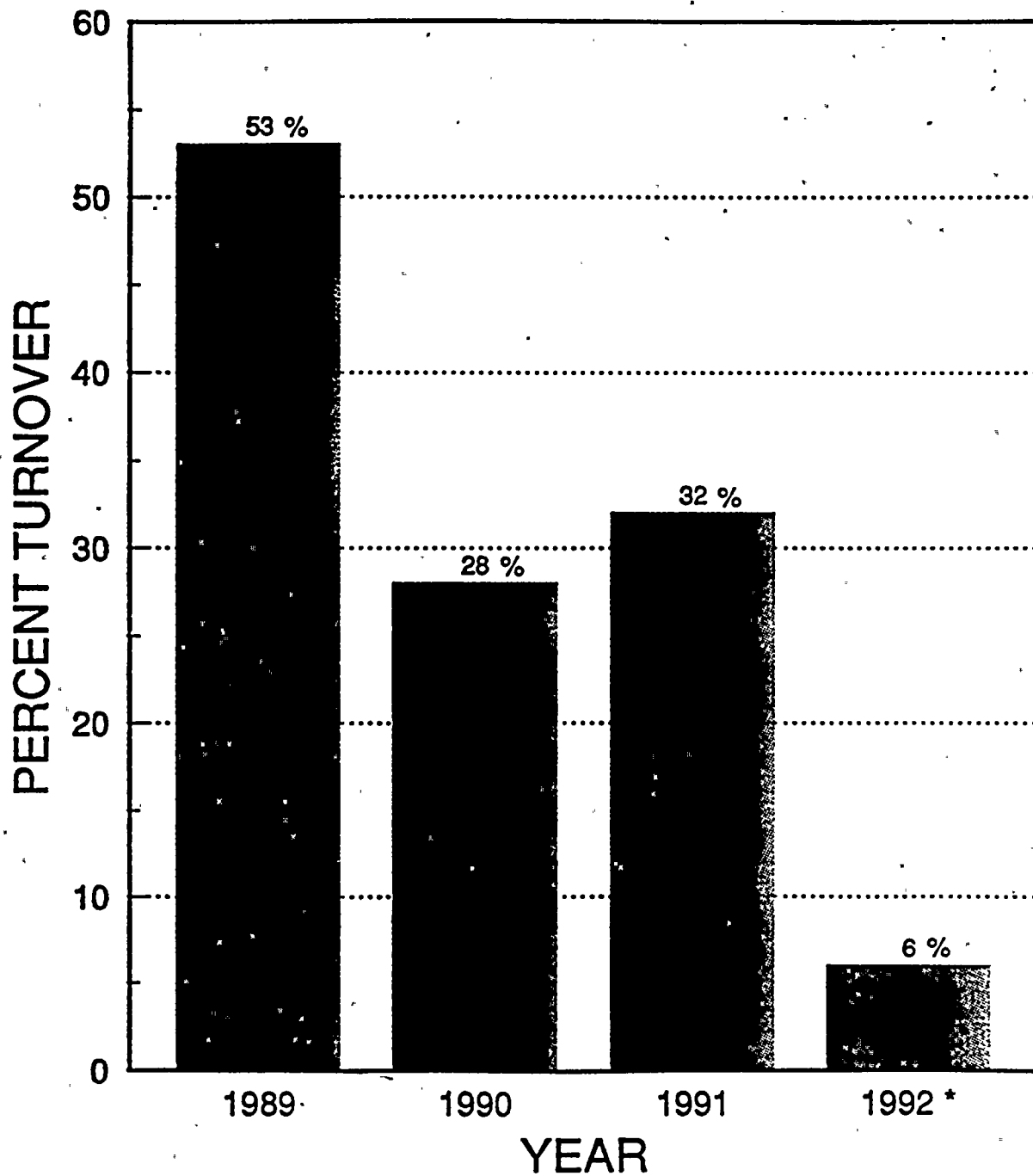
- **SECURITY FORCE EQUIPMENT UPGRADE**
- **IMPLEMENTATION OF INTRUSION DETECTION SYSTEM ENHANCEMENTS**

RFO-4 RELIABILITY INITIATIVES

- **20% EDDY CURRENT TEST OF STEAM GENERATOR TUBES**
- **TEMPORARY MOD CONTROL**
- **ENHANCED SECONDARY PERFORMANCE MONITORING PROGRAM**
- **EMERGENCY SERVICE WATER PUMP INSPECTIONS**
- **NEW H₂ DRYER MOD TO REDUCE FIRE POTENTIAL**



SECURITY FORCE ATTRITION



* YEAR TO DATE

TRAINING

- 241 SECURITY/CONTINGENCY DRILLS/EXERCISES CONDUCTED
- TWO 40 HOUR TACTICAL TRAINING COURSES
- 626 PERIODS OF TRAINING BY SHIFT COMMANDERS
- 38 SAFETY RELATED DRILLS/EXERCISES (EMERGENCY PREPAREDNESS AND FIRE)
- 129 VITAL AREA DOOR RESPONSE DRILLS

EQUIPMENT UPGRADES

- **CCTV IMPROVEMENTS**
- **VIDEO CAPTURE SYSTEM**
- **LIGHTING IMPROVEMENTS**
- **SECURITY RADIO SYSTEM UPGRADE**
- **UTILITY VEHICLES FOR PROTECTED AREA PATROL**
- **REACTIVE TARGETS TO IMPROVE TACTICAL TRAINING**



INSPECTION/AUDIT
COMMENTS

- **WELL MAINTAINED SECURITY FACILITIES AND EQUIPMENT**

- **WELL TRAINED AND KNOWLEDGEABLE SECURITY FORCE**

- **STRONG MANAGEMENT & MANAGEMENT SUPPORT**

- **PROFESSIONALISM OF SECURITY ORGANIZATION**

- **ON-SITE WEAPONS TRAINING FACILITY**

SECURITY OVERVIEW

- **INSPECTIONS/AUDITS**
- **EQUIPMENT UPGRADES**
- **TRAINING**
- **SECURITY FORCE ATTRITION**
- **FUTURE IMPROVEMENTS**



SECURITY

EMERGENCY PREPAREDNESS
INVESTMENTS FOR
FUTURE IMPROVEMENTS

PEOPLE

- APPROXIMATELY 700 CP&L PERSONNEL TRAINED TO SUPPORT HNP EMERGENCY PLAN
- EMPHASIS ON TRAINING/DRILLS FOR ALTERNATES

MANAGEMENT

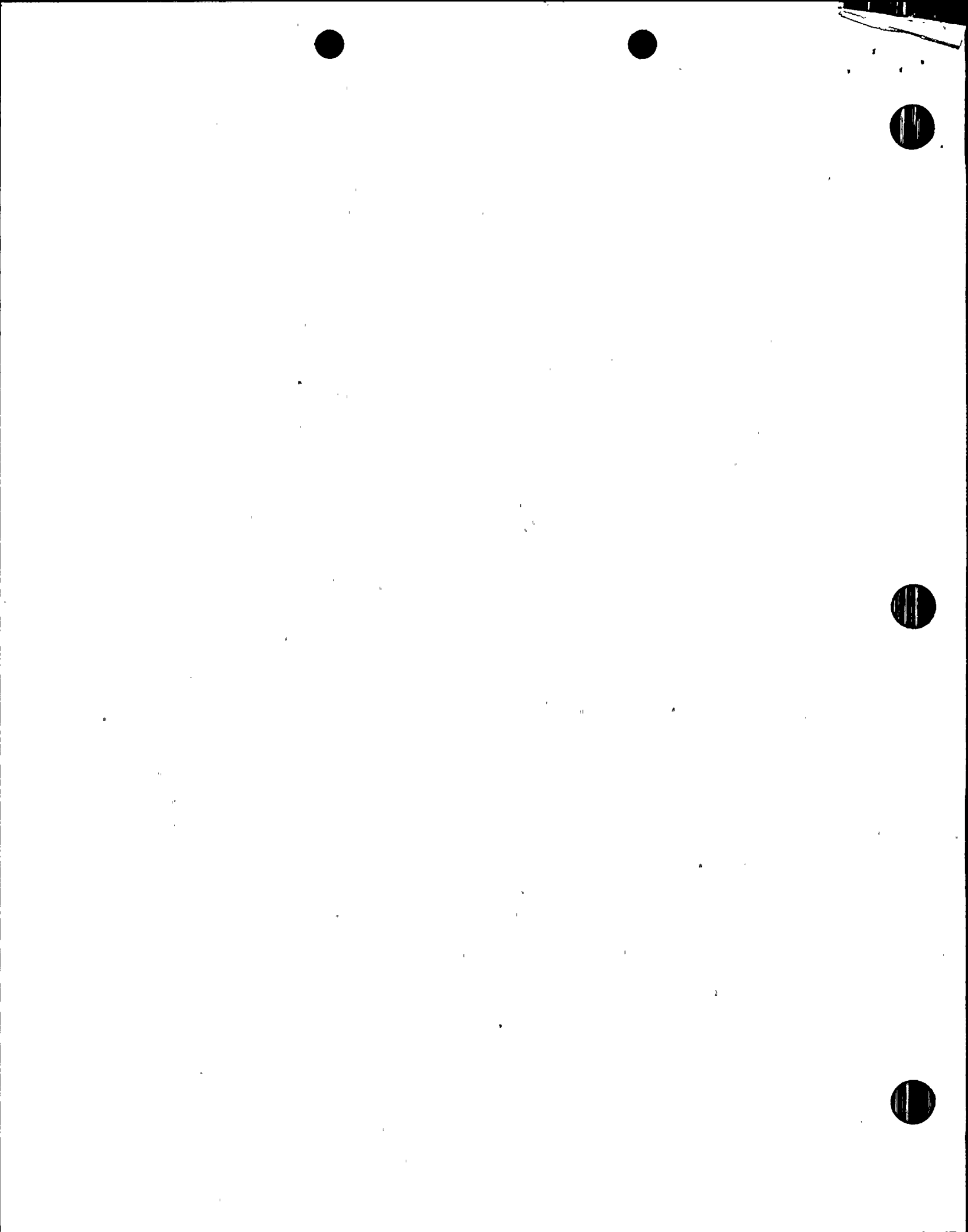
- PRIMARY POSITION ACCOUNTABILITY

PLANT

- STREAMLINING EAL FLOW PATH TO SHORTEN EVALUATION TIME
- ENHANCE BACKUP POWER TO ERFIS EQUIPMENT AT EOF
- INVESTIGATING MODIFICATIONS REQUIRED TO CONDUCT EXERCISES FROM SIMULATOR

FACILITY UPGRADES

- **OSC IS BEING SIGNIFICANTLY UPGRADED AND RELOCATED TO HARDENED BUILDING**
- **DRILL CONTROL ROOM MAXIMIZES OPERATIONS PARTICIPATION WITH MINIMUM DISTRACTIONS TO ACTUAL PLANT OPERATIONS**
- **RESOURCES ARE PROVIDED BY CP&L FOR IMPROVED OFF-SITE FACILITIES AND SUPPORT**
- **ADDITIONAL SUPPORT HOSPITAL OUTFITTED AND TRAINED TO HANDLE CONTAMINATED PERSONNEL**



DRILLS AND EXERCISES

- **SUCCESSFUL ANNUAL EXERCISE WITH FULL NRC PARTICIPATION**

- **TIMELY NOTIFICATIONS**
- **INGESTION PATHWAY (50 MILE EPZ)**
- **FEMA EVALUATED (7 SUPERIOR ITEMS)**

- **DIALOGIC IMPLEMENTED**

- **12 PHONE DRILLS**
- **CONDUCTED SUCCESSFUL AFTER HOURS CALL-IN DRILL**

- **SIX PLANT WIDE DRILLS AND THREE TABLE TOP TRAINING SESSIONS CONDUCTED**



EMERGENCY

PREPAREDNESS OVERVIEW

● **DRILLS AND EXERCISES**

● **FACILITY UPGRADES**

● **FUTURE IMPROVEMENTS**

EMERGENCY
PREPAREDNESS

RADIOLOGICAL CONTROLS
INVESTMENTS FOR
FUTURE IMPROVEMENTS

PEOPLE

- SUPPORT HP CERTIFICATION
- TOOK DIRECT RESPONSIBILITY FOR HP COVERAGE BY CP&L TECHS BETWEEN OUTAGES
- PERSONNEL ASSIGNMENT ROTATIONS TO STRENGTHEN KNOWLEDGE AND PROGRAM
- MOCKUPS

MANAGEMENT

- € ASSESSMENT CENTER
- € SUPERVISOR TRAINING ACADEMY
- € CHEMISTRY MANAGER POSITION

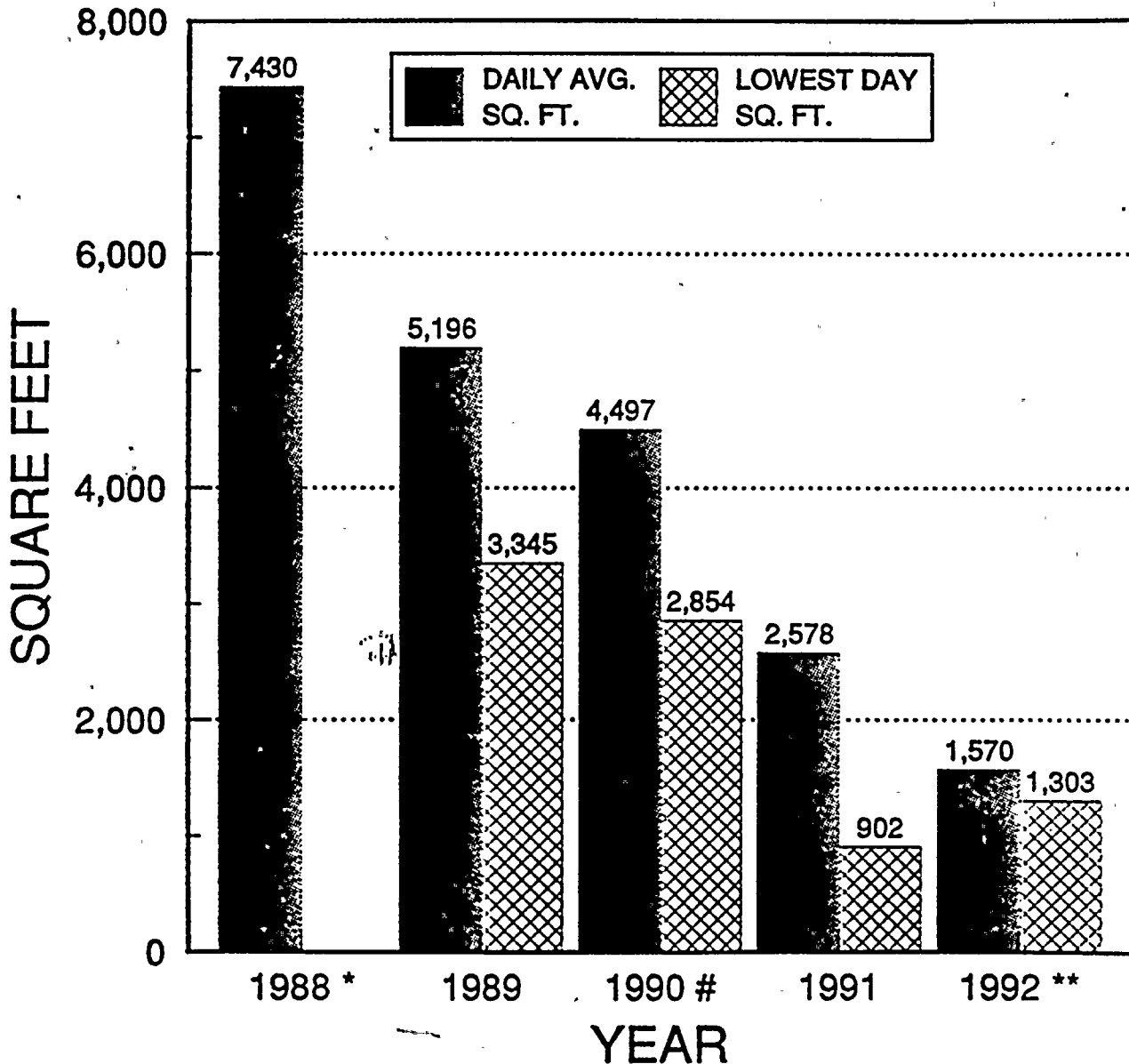
PLANT

- € TV CAMERAS AND MONITORS
- € REPLACE RTD SYSTEM
- € ELECTRONIC DOSIMETRY
- € PASS SYSTEM ASSESSMENT

CHEMISTRY

- **NEW SECONDARY SAMPLE SYSTEM**
- **IMPROVED PASS PERFORMANCE**
- **IMPROVING CHEMISTRY INDEX**
- **NEW CHEMISTRY MANAGER POSITION**
- **NO NRC VIOLATIONS**

PLANT CONTAMINATED SURFACE AREA



* LOWEST DAY DATA NOT AVAILABLE

** 1ST QUARTER 1992

NONRFO YEAR

COLLECTIVE DOSE

● **HARRIS 3 YEAR AVERAGE**

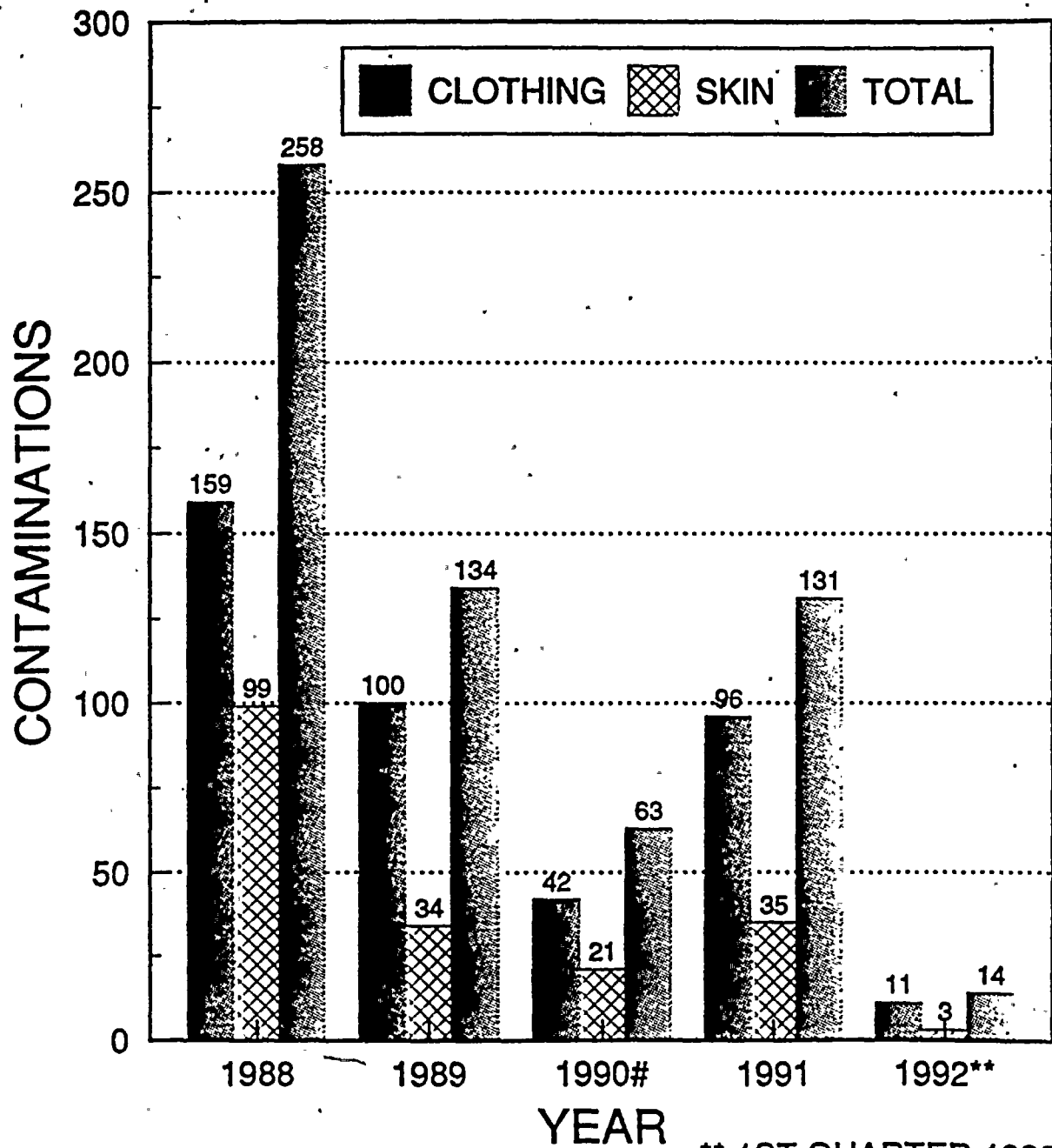
156 PERSON REM

● **INDUSTRY 3 YEAR AVERAGE**

272 PERSON REM



PERSONNEL CONTAMINATIONS



** 1ST QUARTER 1992
NON RFO YEAR

RADIATION PROTECTION

- **REDUCED CONTAMINATED SQUARE FOOTAGE**
- **NO NRC VIOLATIONS**
- **CP&L SUPPORT FOR NRRPT CERTIFICATION OF TECHNICIANS**
- **ERROR FREE SHIPPING RECORD
> 600 SHIPMENTS TOTAL**



RADIATION MONITORING SYSTEM

PERFORMANCE

- **NO SEVEN OR THIRTY DAY REPORTS**
- **IMPROVED STACK SAMPLING**
- **IMPROVED OVERALL RELIABILITY**



RADIOLOGICAL CONTROLS

OVERVIEW

- **RADIATION MONITORING SYSTEM PERFORMANCE**
- **RADIATION PROTECTION**
- **CHEMISTRY**
- **FUTURE IMPROVEMENTS**

RADIOLOGICAL
CONTROLS

POST MAINTENANCE TESTING

- **INCREASED MANAGEMENT REVIEW AND INVOLVEMENT**
- **EXTENSIVE PLANNER TRAINING AND COACHING**
- **EXPANDED PMT MATRIX**
- **SYSTEM ENGINEER INVOLVEMENT**
- **TEAM PROCESS/SELF ASSESSMENT**

MAINTENANCE/SURVEILLANCE
INVESTMENTS FOR
FUTURE IMPROVEMENTS

PEOPLE

- 121 PEOPLE SENT TO SPECIAL VENDOR TRAINING PROGRAMS
- ENCOURAGE CRITICAL SELF ASSESSMENT
- MORE HANDS ON TRAINING
- ADDITIONAL I/C CREW

MANAGEMENT

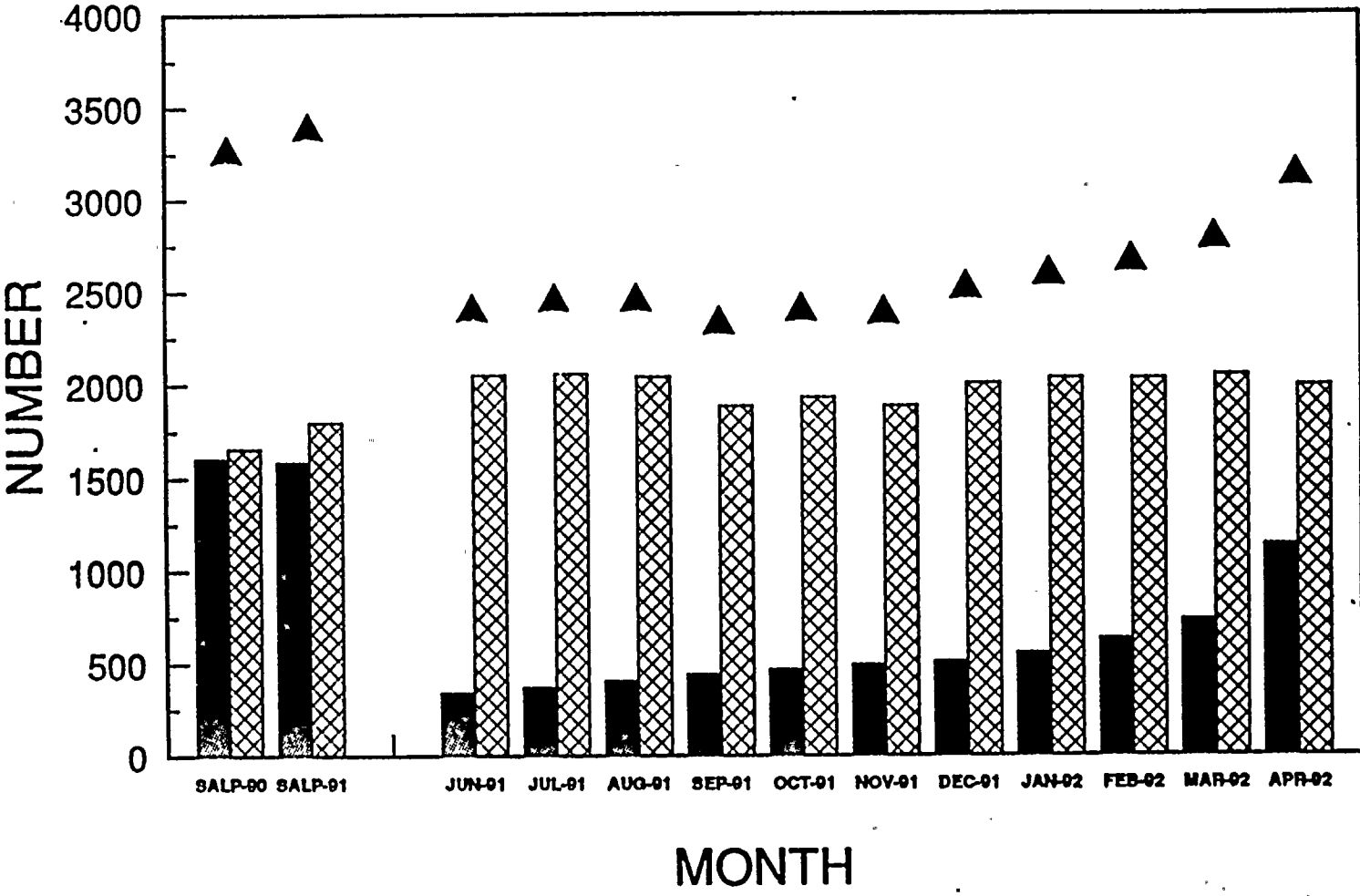
- TASK FORCE WORKING TO IMPROVE WORK CONTROL PROCESS AND REDUCE MAINTENANCE BACKLOG
- ASSESSMENT CENTER
- SUPERVISOR TRAINING ACADEMY
- MANAGEMENT ROTATIONS

PLANT

- REFUELING BRIDGE CRANE CONTROL MODS
- TRANSMITTER CHANGE OUT
- FW PUMP SUCTION VALVE REPLACEMENT
- ERFIS UPGRADES
- INTEGRATED PLANNING AND SCHEDULING



MAINTENANCE BACKLOG



OUTAGE **NON-OUTAGE** **TOTAL**



RESOURCES

- **AUTOMATED MAINTENANCE
MANAGEMENT SYSTEM (AMMS)**
- **DEDICATED SURVEILLANCE TEST
CREW**
- **MOCK-UPS**
- **PREDICTIVE/PREVENTATIVE
MAINTENANCE PROGRAM**



OPERATIONS PHILOSOPHY

- SAFETY FIRST
- PROTECT THE CORE (OPERATION AND SHUTDOWN)
- OPERATIONS CLEARLY IN CHARGE OF PLANT
- STAFF SHIFTS WITH EXTRA LICENSED PERSONNEL
- STRONG COMMITMENT TO TRAINING
- ROTATION/TRANSFER OF LICENSED PERSONNEL TO OTHER WORK GROUPS
- STRONG EMPHASIS ON SHIFT TURNOVER AND FORMAL PRE-EVOLUTION BRIEFS



FIRE PROTECTION

- **FIRE BRIGADE ASSIGNED TO RW OPS WITH LICENSED ADVISOR**
 - **FOCUSES TRAINING RESOURCES ON SMALLER GROUPS**
 - **REDUCES IMPACT ON MAIN CONTROL ROOM**
 - **PROVIDES BETTER QUALIFIED AND PROFESSIONAL FIRE BRIGADE**
 - **ENHANCES PLANT SAFETY**

- **JOINT COUNTY AND CP&L FIRE TRAINING FACILITY ON HARRIS PROPERTY PROVIDES 1ST CLASS TRAINING**

- **OVER 20 RW OPERATORS TRAINED AS FIRST RESPONDERS OR EMT**

- **NO CONTRACT FIRE WATCHES**



OPERATIONS
INVESTMENTS FOR
FUTURE IMPROVEMENTS

PEOPLE

- HIRED 5 EXTRA OPERATORS FOR THE TRAINING PIPELINE
- HUMAN FACTOR REVIEW/UPGRADE OF OPERATIONS PROCEDURES
- SELF ASSESSMENT OF EACH SHIFT LED BY SHIFT SUPERVISORS
- 17 LICENSED PERSONNEL IN THE UNIVERSITY OF MARYLAND DEGREE PROGRAM
- "PLEASE LISTEN" TRAINING

MANAGEMENT

- ASSESSMENT CENTER
- SUPERVISOR TRAINING ACADEMY

PLANT

- LABELING PROGRAM
- HVAC SYSTEM RELIABILITY IMPROVEMENTS

MAINTENANCE/
SURVEILLANCE

MAINTENANCE/SURVEILLANCE

OVERVIEW

- PERFORMANCE
- RESOURCES
- BACKLOG
- POST MAINTENANCE TESTING
- FUTURE IMPROVEMENTS

FUTURE IMPROVEMENTS

● **WORK CONTROL PROCESS**

- **INTEGRATED PLANNING AND SCHEDULING**

● **PLANT MATERIAL CONDITION**

- **PAINING AND LABELING**
- **MAINTENANCE BACKLOG**
- **PLANT MODIFICATIONS**

● **PERSONNEL**

- **TRAINING**
- **QUALITY OF LIFE**

● **ASSESSMENT**

- **SHUTDOWN RISK**
- **SELF ASSESSMENT CULTURE**

SUMMARY OF IMPROVEMENTS

- **PLANT PERFORMANCE**
 - UNIT RELIABILITY
 - CONTAMINATED SPACE
 - FEEDWATER CHEMISTRY
 - TESTING

- **PERSONNEL**
 - ADDITIONS/ROTATIONS
 - TRAINING
 - FACILITIES
 - ERRORS

- **REGULATORY**
 - PERFORMANCE INDICATORS
 - REPORTABLE EVENTS
 - VIOLATIONS

- **ASSESSMENT**
 - SHUTDOWN RISK
 - INFREQUENTLY PERFORMED TESTS
 - SELF ASSESSMENT



CP&L
NUCLEAR GENERATION GROUP
DIRECTIONS

- **STRONG TRAINING EMPHASIS**
- **CONSISTENT CORPORATE STANDARDS AND PERFORMANCE EXPECTATIONS**
- **IMPROVED, MORE CONSISTENT WORK PRACTICES AND PROCEDURES**
- **FUNDING TO MEET CORPORATE STANDARDS ON AN ON-GOING AND CONSISTENT BASIS**

CONCLUDING
REMARKS



SAFETY ASSESSMENT/QUALITY
VERIFICATION
INVESTMENTS FOR
FUTURE IMPROVEMENTS

● **SELF ASSESSMENT**

- **REFINE SUBPROGRAMS**
- **SELF ASSESSMENT TRAINING**

● **NUCLEAR SERVICES DEPARTMENT**

- **ENHANCED CRITICAL SUCCESS FACTORS**
- **PERFORMANCE STANDARDS**

● **NUCLEAR ASSESSMENT DEPARTMENT**

- **PERSONNEL ROTATION**
- **BROADER INDUSTRY EXPOSURE**

NUCLEAR ASSESSMENT
DEPARTMENT ACTIVITIES

● **20 FUNCTIONAL AREA ASSESSMENTS**

- MAINTENANCE
- OPERATIONS
- SECURITY
- EMERGENCY PREPAREDNESS
- PLANT MODIFICATIONS

● **NAD INITIATED ASSESSMENTS**

- SELF-ASSESSMENT
- SAFETY SYSTEM UNAVAILABILITY
- COMPONENT COOLING WATER

● **PLANT REQUESTED ASSESSMENTS**

- SPENT FUEL
- POST MAINTENANCE TESTING
- MOTOR OPERATED VALVES

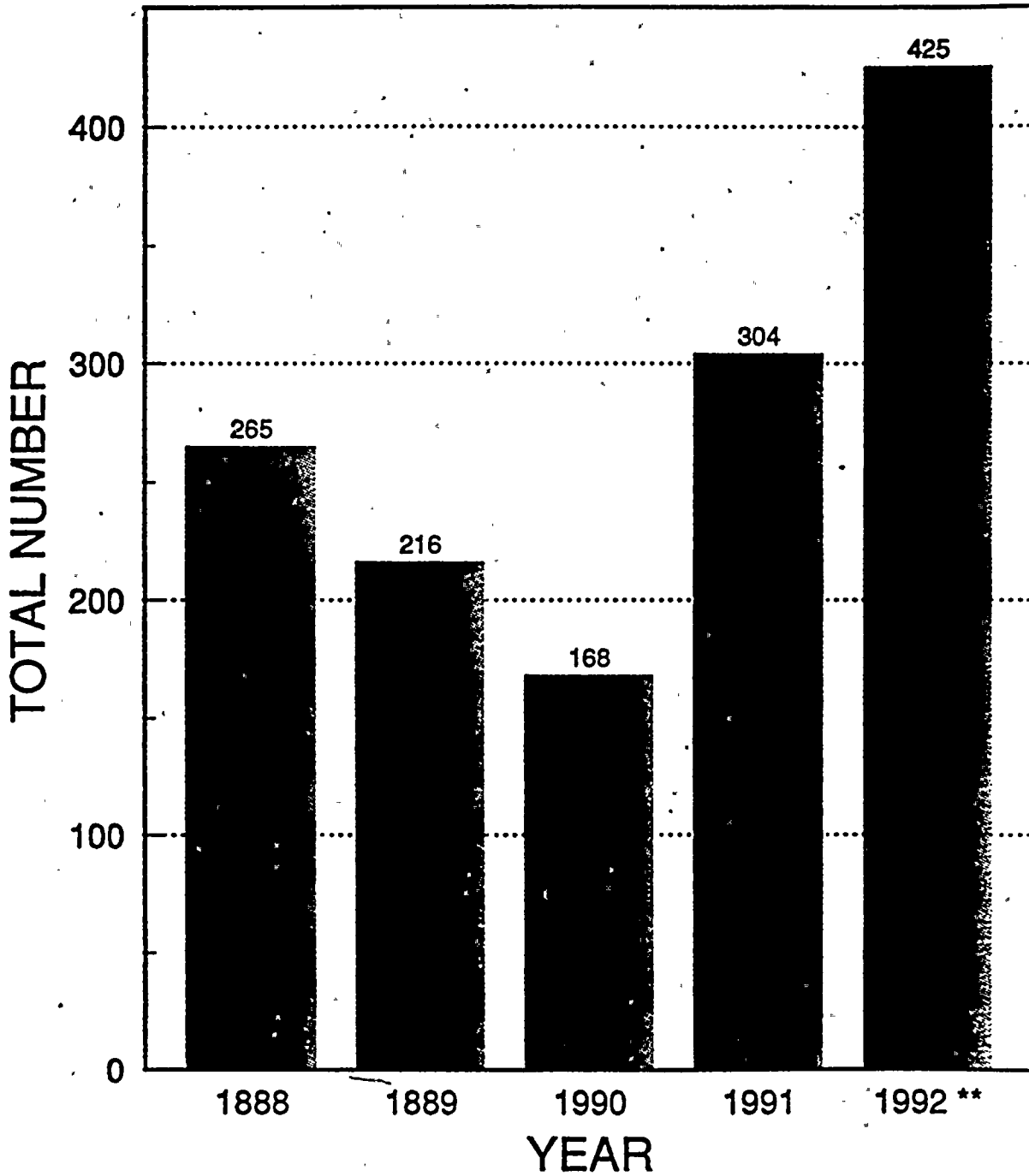
NUCLEAR SERVICES DEPARTMENT
ACTIVITIES

● **QUALITY VERIFICATION SECTION**

● **CRITICAL SUCCESS FACTORS**

● **PEER REVIEWS**

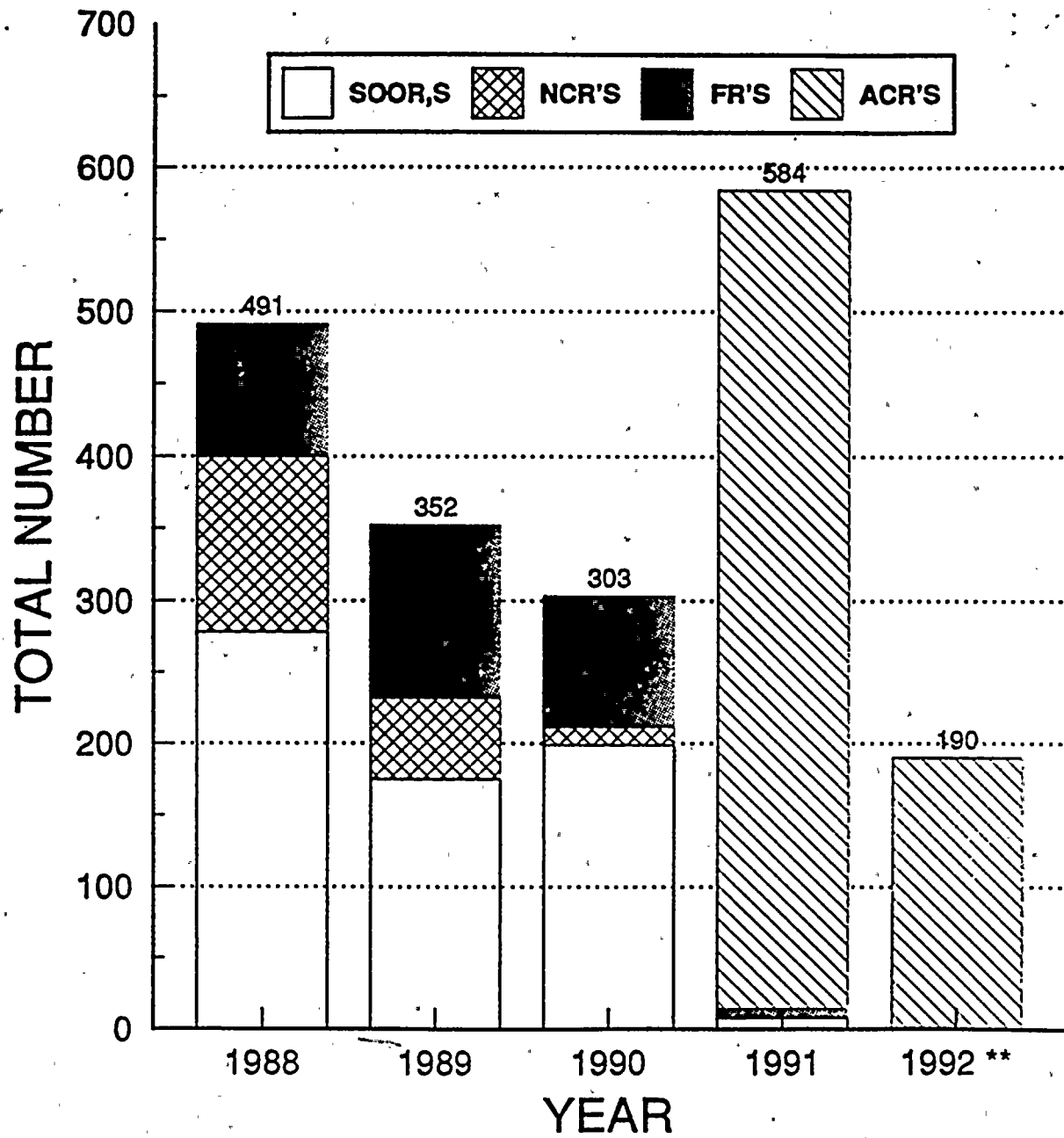
OPERATING EXPERIENCE REVIEWS



** PROJECTED FOR 1992

REDUCED THRESHOLD IMPACT

SOOR'S, NCR'S, FR'S TO ACR'S



** YEAR TO DATE

SELF ASSESSMENT

- **INCREASED EMPHASIS ON SELF ASSESSMENT**
- **COACHING PROGRAM**
- **OUTAGE SCHEDULE RISK ASSESSMENT**
 - **NO MID LOOP**
 - **TEAM REVIEWS AND PNSC APPROVES**
 - **CHANGES EVALUATED FOR RISK**
- **POST OUTAGE REVIEWS**
- **MANAGEMENT TOURS**
- **OPERATING EXPERIENCE**
 - **EXTERNAL (INFO. NOTICES, INPO DOCUMENTS, DAILY REPORTS)**
 - **INTERNAL (SACR's, CP&L EVENTS)**
 - **COMMUNICATIONS (MEETINGS, WRITTEN, VIDEO)**
- **CAP**
 - **LOWER THRESHOLD**
 - **AGGREGATE TRENDING**
 - **RESOURCES**

SAFETY ASSESSMENT/QUALITY

VERIFICATION OVERVIEW

- **SELF ASSESSMENT**

- **NUCLEAR SERVICES DEPARTMENT
ACTIVITIES**

- **NUCLEAR ASSESSMENT DEPARTMENT
ACTIVITIES**

- **FUTURE IMPROVEMENTS**

SAFETY ASSESSMENT/
QUALITY VERIFICATION

ENGINEERING
TECHNICAL SUPPORT
INVESTMENTS FOR
FUTURE IMPROVEMENTS

PEOPLE

- CERTIFICATION OF SYSTEM ENGINEERS
- CERTIFICATION OF REACTOR ENGINEERS
- ENGINEERING SUPPORT PERSONNEL TRAINING PROGRAM

MANAGEMENT

- ASSESSMENT CENTER
- SUPERVISOR TRAINING ACADEMY
- MANAGEMENT ROTATION

PLANT

- EFFECTIVE INCREASE IN DISSEMINATION OF PLANT DATA (TRENDING)
- IMPROVED CORE PARAMETER PREDICTOR
- IMPROVED TRAINING FACILITIES/EQUIPMENT

TRAINING

- ROTATION OF OPERATORS TO TRAINING
- 12 HOURS TRAINING PROVIDED QUARTERLY TO TECHNICAL STAFF
- CONTINUED SUCCESS WITH NEW AND REQUAL. LICENSE EXAMS
- IMPROVED TRAINING FACILITIES/EQUIPMENT
- "PLEASE LISTEN" TRAINING
- REACTOR ENGINEERING CROSS TRAINING WITH H. B. ROBINSON

PROGRAMS

- PREDICTIVE MAINTENANCE
- COMPREHENSIVE VENDOR MANUAL PROGRAM
- CGI COORDINATION WITH ENGINEERING DEPARTMENT
- IMPROVEMENTS IN SYSTEM ASSESSMENTS
- SAFETY SYSTEM AVAILABILITY SCHEDULING
- MOV TESTING PROGRAM

PERFORMANCE

- **PREDICTIVE REACTIVITY
MANAGEMENT**

- **SECONDARY PLANT RELIABILITY**
 - **CONDENSER**
 - **MAIN FEED PUMPS**
 - **HEATER DRAIN PUMPS**

- **IMPROVEMENTS IN EQUIPMENT
MONITORING AND SYSTEM
PERFORMANCE TRENDING**

PERFORMANCE

- PLP-100 " CONDUCT OF INFREQUENTLY PERFORMED TESTS OR EVOLUTIONS "
- MMM-027 "TROUBLE SHOOTING GUIDE"
- FEWER SURVEILLANCE ERRORS
- FIELD COACHING ACTIVITIES
- PREVENTIVE/CORRECTIVE MAINTENANCE RATIO.



1121



PERSONNEL

- **11 ENGINEERS CERTIFIED BY FORMAL CERTIFICATION PROGRAM FOR SYSTEM ENGINEERS**
- **TECHNICAL PROGRESSION PATH FOR ENGINEERS**
- **ROTATION OF PERSONNEL BETWEEN SITE AND CORPORATE ENGINEERING GROUPS**
- **DAILY INVOLVEMENT WITH OPERATIONS/MAINTENANCE**