

October 5, 1988

MEMORANDUM FOR: Bruce A. Boger, Assistant Director
for Region I Reactors
Division of Reactor Projects I/II

FROM: Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

SUBJECT: EXECUTIVE TEAM BRIEFING BY PDI-2

The plant review briefing for Dr. Murley and the Executive Team on the six plants assigned to PDI-2 is scheduled for Thursday, October 13, 1988 from 8:15 am to 10:30 am in Room 12-B-11.

The plants to be reviewed, in the order of presentation are: Hope Creek, Salem 1&2, Peach Bottom 2&3, Limerick 1&2, Susquehanna 1&2 and Shoreham.

Attached for your use are two copies of the briefing material.

/s/

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

Attachment:
As stated

cc w/attachment

T. Murley	B. Grimes
J. Sniezek	J. Roe
F. Miraglia	J. Taylor
D. Crutchfield	E. Jordan
S. Varga	F. Gillespie
G. Holahan	M. Callahan
E. Rossi	E. Wenzinger
L. Shao	J. Wiggins
F. Congel	L. Plisco

DISTRIBUTION

Central File
NRC PDR
Local PDR
PDI-2 Reading
GRivenbark
DFischer

RMartin
RClark
MThadani
SBrown
MO'Brien

PDI-2/D
WButler:mr

10/5/88

8810100172 881005
PDR ADOCK 05000272
P PNU

IDAR-5
Enc-lic-
DFol
1/1



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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A handwritten signature in cursive script that reads "Walter R. Butler".

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

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PROJECTS BRIEFING FOR
NRR EXECUTIVE TEAM
BY
PROJECT DIRECTORATE 1-2
DIVISION OF REACTOR PROJECTS 1/11

HOPE CREEK
SALEM 1&2
PEACH BOTTOM 2&3
LIMERICK 1&2
SUSQUEHANNA 1&2
SHOREHAM

OCTOBER 13, 1987
OWFN: 12P11

PROJECT DIRECTORATE 1-2

DIRECTOR: WALTER BUTLER
SECRETARIES: MONICA RUFFIN AND TONYA RUSSELL
LICENSING ASSISTANT: MARGARET (PEGGY) O'BRIEN
PROJECT ENGINEER DON FISCHER

PLANT UTILITY	VENDOR CONTAINMENT	PROJECT MANAGER	
		LEAD	BACKUP
HOPE CREEK PSE&G	GE MARK I	GEORGE RIVENBARK	STEWART BROWN
SALEM 1&2 PSE&G	W LARGE-DRY	JIM STONE	MOHAN THADANI
PEACH BOTTOM 2&3 PECC	GE MARK I	ROBERT MARTIN	RICHARD CLARK
LIMERICK 1&2 PECC	GE MARK II	RICHARD CLARK	ROBERT MARTIN
SUSQUEHANNA 1&2 PP&L	GE MARK II	MOHAN THADANI	JIM STONE
SHOREHAM LILCO	GE MARK II	STEWART BROWN	GEORGE RIVENBARK

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HOPE CREEK
PLANT/LICENSEE PERFORMANCE

OVERVIEW

- ° BWR 4 WITH MARK 1 CONTAINMENT
- ° SHARES SITE WITH SALEM 1 AND 2
- ° ACHIEVED COMMERCIAL OPERATION 12/86
- ° COMPLETED FIRST REFUELING ON APRIL 15, 1988
- ° SIGNIFICANT SENIOR MANAGEMENT AND ORGANIZATIONAL CHANGES.

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HOPE CREEK

PERFORMANCE TRENDS

SALP (MOST RECENT ENDED 1/15/88)

- ° 4 CATEGORY 1s: MAINTENANCE AND OUTAGE MANAGEMENT, EMERGENCY PREPAREDNESS, SECURITY AND SAFEGUARDS, TRAINING AND QUALIFICATION EFFECTIVENESS
- ° NO CATEGORY 3s
- ° IMPROVED IN TRAINING AND QUALIFICATION EFFECTIVENESS
- ° DECLINED IN LICENSING
- ° IMPROVING TREND IN RADIOLOGICAL CONTROLS AND CHEMISTRY AND IN ASSURANCE OF QUALITY

PERFORMANCE INDICATORS

- ° AVERAGE IN 1 AREA
- ° BELOW AVERAGE IN 5 AREAS
- ° IMPROVING TREND IN 5 AREAS
- ° DECLINING TREND IN 2 AREAS

GENERAL

- ° OVERALL PERFORMANCE IS IMPROVING

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HOPE CREEK

LICENSING ACTIONS - STATUS

ANTICIPATED LICENSING ACTIONS NEXT 12 MONTHS

- ° 1ST PROGRAM
- ° BAILEY SOLID STATE LOGIC MODULES
- ° GENERIC LETTER 87-09 TECH SPEC IMPROVEMENTS
- ° MSIV LEAKAGE
- ° DIESEL GENERATOR SURVEILLANCE INTERVAL
- ° RPS & ECCS ACTUATION INSTR. SURVEILLANCE INTERVAL
- ° REFUELING CRANE INTERLOCK
- ° ROD SEQUENCE CONTROL SYSTEM DELETION
- ° ROD WORTH MINIMIZER SETPOINT REDUCTION
- ° WASTE PROCESSING CONTROL PROGRAM

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HOPE CREEK

LICENSING ACTIONS - STATUS (CONTINUED)

ADEQUACY OF PLANS/SCHEDULES

- ° OUTAGE PLANNING CONCERNING SURVEILLANCES AND LICENSING ACTIONS NEEDS IMPROVEMENT
- ° OUTAGE FOR FIRST REFUELING CONDUCTED ESSENTIALLY AS SCHEDULED.
- ° DOES NOT HAVE INTEGRATED SCHEDULE

LICENSEE INITIATIVES

- ° FREQUENT TELEPHONE CONTACT
- ° COMMITMENT TO IMPROVE QUALITY AND TIMELINESS OF SUBMITTALS

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HOPE CREEK
SUMMARY OVERVIEW

STRENGTHS

- ° STRONG MANAGEMENT PRESENCE ONSITE
- ° COMMITMENT TO IMPROVE QUALITY
- ° AGGRESSIVE, CONSERVATIVE APPROACH TO OUTSTANDING SAFETY CONCERNS
- ° LICENSED OPERATORS CONSERVATIVE AND SAFETY CONSCIOUS ATTITUDE
- ° GOOD OPERATIONAL AWARENESS THROUGHOUT ORGANIZATION

WEAKNESSES

- ° FREQUENCY OF PERSONNEL ERROR IS RELATIVELY HIGH
- ° RECURRING EQUIPMENT ALIGNMENT PROBLEMS
- ° NON LICENSED OPERATORS LACK OF ATTENTION TO DETAIL DURING ROUTINE EVOLUTIONS

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HOPE CREEK

OVERALL ASSESSMENT

- ° PLANT OPERATED WELL DURING ITS FIRST FUEL CYCLE
- ° SUCCESSFUL FIRST REFUELING OUTAGE
- ° LICENSEE MANAGEMENT PRO-ACTIVE AND RESPONSIVE TO OPERATING EXPERIENCE ISSUES
- ° EFFECT OF SENIOR MANAGEMENT CHANGES AND REORGANIZATION SHOULD BE MONITORED BY NRC
- ° CONSIDERABLE RESOURCES EXPENDED TO ENHANCE ALARA
- ° CORRECTIVE ACTION TO ASSURE INCREASED NON-LICENSED OPERATOR ATTENTION TO DETAIL SHOULD BE MONITORED BY NRC
- ° EFFORTS ARE BEING MADE TO STANDARDIZE PROGRAMS AND PROCEDURES AT HOPE CREEK AND SALEM
- ° LICENSEE MANPOWER/EFFICIENCY REVIEW SHOULD BE MONITORED BY NRC

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HOPE CREEK

PLANT/LICENSEE PERFORMANCE

PLANT PERSONNEL OVERVIEW

- ° 5 OPERATING SHIFTS/8-HOUR SHIFT OPERATION
- ° WILL PROBABLY GO TO 12-HOUR SHIFTS
- ° LICENSED OPERATORS ON PLANT STAFF - 4 SROs, 2 ROs
- ° 24 LICENSED OPERATORS ON SHIFT DUTIES - 15 SROs, 9 ROs
- ° 6 STAs - ALL DEGREED - 5 SROs
- ° TRAINING PROGRAMS NOT YET ACCREDITED BY INPO

MAJOR OPERATING EVENTS

- ° FIRST REFUELING OUTAGE (52 DAYS DURATION)
SUCCESSFULLY COMPLETED ON APRIL 15, 1988.

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HOPE CREEK

PLANT/LICENSEE PERFORMANCE (CONTINUED)

PERFORMANCE INDICATOR OVERVIEW

TRENDS: PLANT DATA LAST 2 QUARTERS THRU SECOND QUARTER OF 1988
RELATIVE TO THE PREVIOUS 4 QUARTERS

DEVIATIONS: PLANT DATA RELATIVE TO INDUSTRY DATA LAST 4 QUARTERS
THRU SECOND QUARTER OF 1988

INDICATOR	TREND	DEVIATION FROM OLDER PLANTS
AUTO SCRAMS TOTAL	I	B
SAFETY SYSTEM ACTUATIONS	I	B
SIGNIFICANT EVENT FREQUENCY	I	B
SAFETY SYSTEM FAILURES	D	B
FORCED OUTAGE RATE	I	--
EQUIPMENT FORCED OUTAGES	D	B

I = IMPROVED
D = DECLINED
-- = NO CHANGE

A = ABOVE AVERAGE
B = BELOW AVERAGE

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HOPE CREEK

PLANT/LICENSEE PERFORMANCE (CONTINUED)

SPECIAL LICENSING ACTIONS (JUNE 1987 TO PRESENT)

- ° TWO CODE RELIEFS
- ° ONE APPENDIX J EXEMPTION
- ° ONE EMERGENCY TS CHANGE
- ° NO DISCRETIONARY ENFORCEMENTS/TEMPORARY WAIVERS OF COMPLIANCE

SIGNIFICANT PERFORMANCE IMPROVEMENT PROGRAMS UNDERWAY OR PLANNED

- ° RELIABILITY CENTER MAINTENANCE PROGRAM (UNDERWAY)
- ° INPO HUMAN PERFORMANCE EVALUATION SYSTEM (JUST BEGINNING)
- ° ISLAND WIDE WORK CONTROL PROGRAM (UNDERWAY)
- ° PRA STUDY (INITIATE IN SEPT. 88)
- ° CONFIGURATION BASELINE PROGRAM (START EARLY 1989)
- ° SAFETY SYSTEM FUNCTIONAL REVIEWS (UNDERWAY)

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INSPECTION FINDINGS

INSPECTIONS CONDUCTED (JUNE 1, 1987 TO MARCH 21, 1988)

- ° 22 ROUTINE INSPECTIONS

VIOLATIONS

- ° NO ESCALATED ENFORCEMENT
- ° 9 LEVEL IV
- ° 1 LEVEL V

ALLEGATIONS

- ° NO OPEN ALLEGATIONS

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LICENSING ACTIONS - STATUS

BACKLOG OVERVIEW

LAST BRIEFING (6/11/87)	CURRENT (10/01/88)	ADDED	COMPLETED
18	18	21	21

	CAT 1	CAT 2	CAT 3
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87	0	5	3
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87 COMPLETED BY PM	0	3	0
AMENDMENT REQUESTS RECEIVED PRIOR TO 9/4/87 COMPLETED BY PM (6/4/87 TO PRESENT)			<u>4</u>

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HOPE CREEK

LICENSING ACTIONS - STATUS (CONTINUED)

MAJOR CURRENT ISSUES IN PROGRESS

- ° 1ST PROGRAM
- ° BAILEY SOLID STATE MODULES

MAJOR PLANT SPECIFIC ISSUES COMPLETED (JUNE 1987-PRESENT)

- ° ATWS - SLC SYSTEM
- ° PURGE VALVE OPERABILITY
- ° INSERVICE INSPECTION PROGRAM
- ° LOCAL LEAK RATE TEST EXEMPTION

MAJOR GENERIC ISSUES

- ° ATWS COMPLETE

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HOPE CREEK 1
NUCLEAR GENERATING STATION

SALP SUMMARY

PERIOD ENDING	10/85	10/86	01/88
PLANT OPERATIONS	-	2	2
RADIOLOGICAL CONTROLS AND CHEMISTRY	2	2	2
MAINTENANCE AND OUTAGE MANAGEMENT	2	1	1
SURVEILLANCE	-	2	2
EMERGENCY PREP.	2	1	1
SECURITY & SAFEG.	1	1	1
ENGINEERING SUPPORT	-	-	2
LICENSING ACTIVITIES	2	1	2
ASSURANCE OF QUALITY	1	2	2
TRAINING & QUALIFICATION EFFECTIVENESS	-	2	1

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SALEM 1 AND 2
PLANT/LICENSEE PERFORMANCE

OVERVIEW

- ° FOUR LOOP W PWR
- ° SHARED SITE WITH HOPE CREEK
- ° BOPCN INJECTION TANK REMOVED (UNIT 1)
- ° NEW VP NUCLEAR
- ° OVERALL PERFORMANCE CONTINUES TO IMPROVE
- ° NUCLEAR DEPARTMENT COMPLETED MANPOWER/EFFICIENCY REVIEW
- ° INITIATED A PLANT SYSTEM DESIGN BASIS DOCUMENTATION PROGRAM
- ° LEVEL III VIOLATION (\$50K CIVIL PENALTY) ISSUED FOR FIRE PROTECTION DEFICIENCIES
- ° EFFORTS TO STANDARDIZE PROGRAMS AND PROCEDURES AT ALL LICENSEE FACILITIES

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SALEM 1 AND 2
PERFORMANCE TRENDS

SALP (MOST RECENT ENDED 12/31/87)

- ° 5 CATEGORY 1s: MAINTENANCE, EMERGENCY PREPAREDNESS, REFUELING OUTAGE MANAGEMENT, ASSURANCE OF QUALITY, SECURITY AND SAFEGUARDS
- ° NO CATEGORY 3
- ° CHEMISTRY AND RADIOLOGICAL CONTROLS ONLY AREA TO DECLINE
- ° IMPROVED IN REFUELING OUTAGE MANAGEMENT, ASSURANCE OF QUALITY

PERFORMANCE INDICATORS (DATA THROUGH 06/30/88)

UNIT 1

- ° ABOVE AVERAGE PERFORMANCE IN 3 AREAS
- ° BELOW AVERAGE PERFORMANCE IN 3 AREAS
- ° IMPROVING TRENDS IN 3 OF 6 AREAS

UNIT 2

- ° ABOVE AVERAGE PERFORMANCE IN 2 AREAS
- ° BELOW AVERAGE PERFORMANCE IN 4 AREAS
- ° IMPROVING TRENDS IN 2 OF 6 AREAS

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SALEM, UNIT 1 AND 2

PERFORMANCE TRENDS (CONTINUED)

GENERAL

- ° WEAKNESSES IN INTEFFACE WITH DESIGN ENGINEERING, OPERATOR REGUALIFICATION PROGRAM, AND ATTENTION TO DETAIL DURING SURVEILLANCE TESTING
- ° IMPROVED PLANT TRIP FATE - SUCCESSFUL TRIP REDUCTION PROGRAM

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SALEM 1 AND 2

LICENSING ACTIONS - STATUS

ANTICIPATED LICENSING ACTIONS NEXT 12 MONTHS

- ° H₂ ANALYZER ACTION - LONGER ANALYZER INOPERABILITY
- ° PHP FLOW REQUIREMENTS
- ° CONTAINMENT ISOLATION VALVES - REVISES LIST OF ISOLATION VALVES
- ° TURBINE BYPASS VALVE TESTING - EXTENDS TEST INTERVAL
- ° DIESEL GENERATOR TESTING - REDUCES TEST REQUIREMENTS
- ° CONTAINMENT AIRLOCKS - TESTING OF AIRLOCK SEALS
- ° POPS INOPERABLE - CHANGES ACTION STATEMENT
- ° SNUBBER TABLE - REMOVES SNUBBER TABLE
- ° APPENDIX B - REMOVES APPENDIX B FROM TS
- ° LICENSE EXTENSIONS
- ° RELAX REQUIREMENTS ON MODE CHANGES
- ° SEA TURTLE IMPINGEMENTS

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SALEM

LICENSING ACTIONS - STATUS (CONTINUED)

ADEQUACY OF PLANS/SCHEDULES

- ° OUTAGE ACTIVITIES PLANNING GOOD
- ° MANAGEMENT AND PLANNING DEPARTMENT ARE AGGRESSIVE IN PREPLANNING OUTAGES
- ° DURING OUTAGES, THEY ARE EQUALLY AGGRESSIVE IN SEEING THAT WORK IS SATISFACTORILY PERFORMED
- ° OUTAGE LICENSING PLANNING GOOD - SOME IMPROVEMENT CONCERNING RELIEF PLANNING IS NECESSARY

LICENSEE INITIATIVES

- ° MONTHLY LICENSING STATUS MEETINGS HELD
- ° FREQUENT TELEPHONE CONTACT
- ° SOME WEAKNESSES IN SCHEDULAR PLANNING OF CHANGE REQUESTS

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SALEM UNITS 1 AND 2

SUMMARY OVERVIEW

STRENGTHS

- ° RECOGNITION OF WEAKNESSES AND A PRO-ACTIVE PROGRAM TO ADDRESS WEAKNESSES
EXAMPLE:
 1. MAJOR REBUILDING OF DESIGN BASIS DOCUMENTATION
 2. FIRE PROTECTION UP-GRADE PROGRAM
 3. ENVIRONMENTAL PROTECTION UP-GRADE PROGRAM
 4. SERVICE WATER SYSTEM ACTION PLAN (A DEDICATED PROJECT TEAM WAS FORMED)

- ° RELIABILITY CENTERED MAINTENANCE PROGRAM

- ° PLANNED PRA FOR SALEM

- ° MANAGED MAINTENANCE INFORMATION SYSTEM (ELECTRONIC DATA BASE SYSTEM TO TRACK WORK ORDERS, ETC.)

- ° TRIP REDUCTION PROGRAM WITH WOG

- ° MAJOR REORGANIZATION TO STRENGTHEN CORE GROUP ENGINEERING EXPERTISE.

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SALEM, UNITS 1 AND 2

WEAKNESSES

- ° LICENSING/DESIGN BASIS DOCUMENTATION SOMETIMES NOT COORDINATED (EXAMPLE: ELECTRICAL "BREAKER COORDINATION")
- ° SERVICE WATER SYSTEM (CORROSION/EROSION PROBLEMS)
- ° SCHEDULING OF REGULATORY ACTIONS (EXAMPLE: LATE SUBMITTAL FOR RTD MODS DURING REFUELING - LATE ISI PROGRAM)
- ° INCONSISTENT OUTAGE PERFORMANCE (I.E., VERY SHORT PREVIOUS OUTAGE THEN LENGTHY OUTAGE THIS TIME)

OVERALL ASSESSMENT

- ° MANAGED MAINTENANCE - PROGRAM HAS RESULTED IN REDUCING WORK ORDERS
- ° EXCELLENT HOUSEKEEPING
- ° MANAGEMENT REORGANIZATION IS YIELDING INCREASED MANAGEMENT INVOLVEMENT
- ° PLANT OPERATIONS TRENDING UPWARDS

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SALEM 1 AND 2
PLANT/LICENSEE PERFORMANCE

PLANT PERSONNEL OVERVIEW

- ° 5 OPERATING SHIFTS/8 HOUR SHIFT OPERATION
- ° CONSIDERING GOING TO 12-HOUR SHIFTS
- ° LICENSED OPERATORS ON PLANT STAFF - 8 SROs
- ° 35 LICENSED OPERATORS ON SHIFT DUTIES - 15 SROs, 20 POS
- ° 11 STAs - ALL DEGREED - ALL SROs
- ° 10 TRAINING PROGRAMS ACCREDITED BY INPO

MAJOR OPERATING EVENTS

- ° PRIMARY SYSTEM LEAK THROUGH CANOPY SEAL WELD
- ° BREAKER COORDINATION

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SALEM 1 AND 2

PLANT/LICENSEE PERFORMANCE (CONTINUED)

PERFORMANCE INDICATOR OVERVIEW

TRENDS: PLANT DATA LAST 2 QUARTERS ENDING SECOND QUARTER OF 1988
RELATIVE TO THE PREVIOUS 4 QUARTERS

DEVIATIONS: PLANT DATA RELATIVE TO INDUSTRY DATA LAST 4 QUARTERS
(DATA THROUGH THE SECOND QUARTER OF 1988 INCLUDED)

SALEM UNIT 1

INDICATOR	TREND	DEVIATION
AUTO SCRAMS TOTAL	D	A
SAFETY SYSTEM ACTUATIONS	C	A
SIGNIFICANT EVENT FREQUENCY	I	E
SAFETY SYSTEM FAILURES	I	B
FORCED OUTAGE RATE	I	A
EQUIPMENT FORCED OUTAGES	D	B

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SALEM 1 AND 2

PLANT/LICENSEE PERFORMANCE (CONTINUED)

PERFORMANCE INDICATOR OVERVIEW

TRENDS: PLANT DATA LAST 2 QUARTEPS ENDING SECOND QUARTER OF 1988
RELATIVE TO THE PREVIOUS 4 QUARTERS

DEVIATIONS: PLANT DATA RELATIVE TO INDUSTRY DATA LAST 4 QUARTEPS
(DATA THROUGH THE SECOND QUARTER OF 1988 INCLUDED)

SALEM UNIT 2

INDICATOR	TREND	DEVIATION
AUTO SCRAMS TOTAL	D	B
SAFETY SYSTEM ACTUATIONS	D	A
SIGNIFICANT EVENT FREQUENCY	--	B
SAFETY SYSTEM FAILURES	I	B
FORCED OUTAGE RATE	I	A
EQUIPMENT FORCED OUTAGES	D	B

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SALEM 1 AND 2

PLANT/LICENSEE PERFORMANCE (CONTINUED)

SPECIAL LICENSING ACTIONS (JUNE 1987 TO PRESENT)

- ONE CODE RELIEF - WELD OVERLAYS
- ONE EMERGENCY TS CHANGE WITH A TEMPORARY WAIVER OF COMPLIANCE

SIGNIFICANT PERFORMANCE IMPROVEMENT PROGRAMS UNDERWAY OR PLANNED

- RELIABILITY CENTER MAINTENANCE PROGRAM (UNDERWAY)
- ISLAND WIDE WORK CONTROL PROGRAM (UNDERWAY)
- PRA STUDY
- SAFETY SYSTEM FUNCTIONAL REVIEWS (IN PROGRESS)

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INSPECTION FINDINGS

INSPECTIONS CONDUCTED (JUNE 1, 1988 TO JUNE 29, 1988)

33 ROUTINE INSPECTIONS (UNIT 1)

31 ROUTINE INSPECTIONS (UNIT 2)

VIOLATIONS

* 4 LEVEL IV

ALLEGATIONS

* NO OPEN ALLEGATIONS

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LICENSING ACTIONS - STATUS
BACKLOG OVERVIEW

LAST BRIEFING (6/11/87)	CURRENT (7/01/88)	ADDED	COMPLETED
UNIT 1 38	41	20	17
UNIT 2 38	41	21	18

	CAT 1	CAT 2	CAT 3
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87 (EACH UNIT)	0	5	4
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87 COMPLETED BY PM (EACH UNIT)	0	3	0
AMENDMENT REQUESTS RECEIVED PRIOR TO 9/4/87 COMPLETED BY PM (6/4/87 TO PRESENT)		1	3

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SALEM 1 AND 2

LICENSING ACTIONS - STATUS (CONTINUED)

MAJOR CURRENT ISSUES IN PROGRESS

- ° CONTAINMENT ISOLATION VALVE (TEST LIST)
- ° TURBINE BYPASS VALVE TEST INTERVAL EXTENSION
- ° CONTAINMENT AIRLOCKS SEAL TESTING
- ° SEA TURTLE IMPINGEMENT ON TRASH BARS

MAJOR PLANT SPECIFIC ISSUES COMPLETED (JUNE 1987-PRESENT)

- ° RTD BYPASS SYSTEM MODIFICATIONS
- ° INCREASE BORON CONCENTRATION IN RWST AND ACCUMULATORS

MAJOR GENERIC ISSUES

- ° CLOSURE OF MPA B-96
- ° CLOSURE OF MPA B-96 STEAM BINDING OF AFW PUMPS," GENERIC LETTER 88-03

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SALEM 1 AND 2
GENERATING STATION

SALP SUMMARY

PERIOD ENDING	09/85	09/86	12/87
PLANT OPERATIONS	2	2	2
RADIOLOGICAL CONTROLS	1	1	2
MAINTENANCE	2	1	1
SURVEILLANCE	2	2	2
FIRE PROTECTION	2	N/A	N/A
EMERGENCY PREP.	2	1	1
SECURITY & SAFEG.	1	1	1
OUTAGES	2	2	1
ASSURANCE OF QUALITY	N/A	2	1
ENGINEERING SUPPORT	N/A	2	2
LICENSING	2	2	2
TRAINING & QUALITY EFFECTIVENESS	N/A	2	2

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PEACH BOTTOM ATOMIC POWER STATION

UNITS 2 AND 3

PLANT/LICENSEE PERFORMANCE

OVERVIEW

- ° BWP 4/MARK I
- ° DUAL UNIT SITE
- ° SHUTDOWN SINCE 3/31/87
- ° CORRECTIVE ACTION PLAN FOR SHUTDOWN ISSUES
- ° NEW MANAGEMENT

ACTIONS FOR RESTART:

- ° ENFORCEMENT ACTIONS
- ° REVIEW OF PLAN FOR RESTART
- ° LICENSEE READINESS
- ° INSPECTIONS
- ° PUBLIC & STATE INVOLVEMENT
- ° BRIEFINGS
- ° DECISION
- ° STARTUP MONITORING

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PEACH BOTTOM ATOMIC POWER STATION
PERFORMANCE TRENDS

SALP (MOST RECENT ENDED 05/31/87)

- ° 2 RATINGS OF UNACCEPTABLE: OPERATIONS, QUALITY ASSURANCE
- ° 1 NOT RATED: TRAINING AND QUALIFICATION EFFECTIVENESS
- ° 7 CATEGORY 2: RAD CONTROLS, MAINT., SURVEILLANCE, EP, SECURITY, TECH SUPPORT, LICENSING
- ° 1 CATEGORY 3: FIRE PROTECTION AND HOUSEKEEPING

PERFORMANCE INDICATOR TRENDS

- ° BOTH UNITS HAVE BEEN SHUTDOWN SINCE 3/31/87

GENERAL

- ° DETERMINATION OF OPERATING PERFORMANCE TRENDS IS PREMATURE

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PEACH BOTTOM ATOMIC POWER STATION
LICENSING ACTIONS - STATUS

ANTICIPATED LICENSING ACTIONS NEXT 12 MONTHS

- ° PIPING REPLACEMENT TS MODS AND ELIMINATION OF REACTOR HEAD SPP/Y PIPING
- ° UNIT 3 RELOAD AMENDMENT
- ° DIESEL GENERATOR CARDOX
- ° REMOVAL OF CARDOX FROM CONTROL ROOM
- ° UNDERVOLTAGE PROTECTION MODIFICATIONS
- ° MINIMUM SPM COUNTRATE
- ° SECOND 10-YEAR IST PROGRAM
- ° OVERTIME LIMIT TECH SPEC
- ° RELOAD TOPICAL REPORTS
- ° STATION BLACKOUT RULE
- ° NONCONFORMING PIPING MATERIALS
- ° CORRECTION OF ERRORS FOR UNIT 2 RELOAD TS
- ° 50.62 ATWS TS

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PEACH BOTTOM ATOMIC POWER STATION
LICENSING ACTIONS - STATUS (CONTINUED)

ANTICIPATED ACTIONS-CONTINUED

- ° CONTAIN ISOLATION DEPENDABILITY, II.E.4.2(7)
- ° SALEM ATWS (3 ITEMS)
- ° APP J CONTAIN LEAK TESTING EXEMPTION
- ° EMERGENCY SERVICE WATER LCO

ADEQUACY OF PLANS/SCHEDULES

- ° INITIAL LICENSEE PLANS AND SCHEDULES FOR CORRECTIVE ACTION WERE EXTENDED CONSIDERABLY AS THE SCOPE OF THE PROBLEMS WERE REALIZED.

LICENSEE INITIATIVES

- ° PLAN FOR RESTART
 - NEW MANAGEMENT
 - OPERATOR TRAINING
 - ADDITIONAL STAFFING
 - HIGHER STANDARDS

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PEACH BOTTOM ATOMIC POWER STATION
SUMMARY OVERVIEW

STRENGTHS

- ° NEW MANAGEMENT
- ° PLAN FOR RESTART
- ° STRONG ENGINEERING SUPPORT
- ° SINCERE EFFORTS AND PROGRESS SHOWN IN IMPROVEMENTS IN MANAGEMENT ATTITUDES, OPERATOR ATTITUDE TRAINING AND PROFESSIONALISM, HOUSEKEEPING, PLANT LABELING, DECONTAMINATION, MAINTENANCE BACKLOG AND COMMUNICATIONS WITH STATE AND LOCAL GOVERNMENTS
- ° STATUS OF MAINTENANCE

WEAKNESSES

AS OF 03/31/87

- ° CORPORATE MANAGEMENT FAILED TO RECOGNIZE AND CORRECT PROBLEMS
- ° PLANT MANAGEMENT LEADERSHIP AND SKILLS
- ° LICENSED OPERATOR REPLACEMENT PROGRAM
- ° CULTURE

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PEACH BOTTOM ATOMIC POWER STATION

CURRENT

- ° SECURITY
- ° OPERATIONS TRAINING

OVERALL ASSESSMENT

- ° IMPACT OF EXECUTIVE VP NUCLEAR IS POSITIVE
- ° PLANT MANAGER OBSERVED TO HAVE POSITIVE EFFECT ON PLANT STAFF
- ° HOUSEKEEPING IMPROVED
- ° REDUCTION OF CONTAMINATED AREAS
- ° LABELING OF SYSTEMS, COMPONENTS GREATLY IMPROVED
- ° SECURITY AND OPERATIONS TRAINING TO GET CONTINUED ATTENTION
- ° PROGRAM APPEARS TO BE GOING IN RIGHT DIRECTION

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PEACH BOTTOM ATOMIC POWER STATION

LICENSE AMENDMENT APPLICATIONS/EXEMPTION REQUESTS EXPECTED TO BE
FILED DURING THE NEXT TWELVE MONTHS

DELETE ORGANIZATION CHARTS (GL 88-06)

ISEG

RSCS/RWM OPERABILITY REQUIREMENTS

MODIFY ISOLATION VALVE STROKE TIMES

APRM TRIP SETPOINT CHANGE

CLARIFICATION OF PCIS/ECCS TRIP LOGIC

AUGMENTED ISI (GL 88-01)

DIESEL GENERATOR MAINTENANCE FREQUENCY

RPS TESTING FREQUENCY

ECCS/D-G ACCELERATED TESTING RELIEF

MSIV LOW PRESSURE ISOLATION SETPOINT CHANGE

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PEACH BOTTOM ATOMIC POWER STATION
PLANT/LICENSEE PERFORMANCE

PLANT PERSONNEL OVERVIEW

- ° STAFFING LEVELS INCREASING
- ° 6 SHIFTS/8 HOUR SHIFTS/CLOCKWISE ROTATION
- ° 16 LICENSED OPERATORS ON PLANT STAFF
- ° 36 LICENSED OPERATORS ON SHIFT DUTIES - 16 SROs, 20 RO
- ° CURRENT TOTAL IS 52, TO RISE TO 75 BY NOV. 1989
- ° SRO/ROs IN TRAINING - 8 SROs, 8 ROs

MAJOR EVENTS

- ° NO MAJOR OPERATIONAL EVENTS SINCE THE SHUTDOWN OF MARCH 31, 1987

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PEACH BOTTOM ATOMIC POWER STATION 2&3
PLANT/LICENSEE PERFORMANCE (CONTINUED)

PERFORMANCE INDICATOR OVERVIEW

TRENDS: PLANT DATA LAST 2 QUARTERS RELATIVE TO THE PREVIOUS 4 QUARTERS
DEVIATIONS: PLANT DATA RELATIVE TO INDUSTRY DATA LAST 4 QUARTERS
(DATA THROUGH THE FIRST QUARTER OF 1988 INCLUDED)

INDICATOR	TREND UNITS 2 AND 3	DEVIATIONS UNITS 2 AND 3
AUTO SCRAMS TOTAL		
SAFETY SYSTEM ACTUATIONS		
SIGNIFICANT EVENT FREQUENCY		[PLANT HAS BEEN SHUTDOWN SINCE 3/31/87]
SAFETY SYSTEM FAILURES		
FORCED OUTAGE RATE		
EQUIPMENT FORCED OUTAGES		

I = IMPROVED
D = DECLINED
-- = NO CHANGE

A = ABOVE AVERAGE
B = BELOW AVERAGE

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PEACH BOTTOM ATOMIC POWER STATION
PLANT/LICENSEE PERFORMANCE (CONTINUED)

SPECIAL LICENSING ACTIONS (JUNE 1987 TO PRESENT)

- ° TECH SPEC ORGANIZATIONAL STRUCTURE CHANGE
- ° REGULATORY EFFECTIVENESS REVIEW
- ° HYDROGEN WATER CHEMISTRY REVIEW
- ° DIESEL GENERATOR FUEL OIL
- ° 10 CFR 50.62 ATWS

SIGNIFICANT PERFORMANCE IMPROVEMENT PROGRAMS UNDERWAY OR PLANNED
PLAN FOR RESTART

- ° CHANGE ORGANIZATIONAL STRUCTURE
- ° DEVELOP MANAGEMENT SYSTEMS AND MANAGERIAL SKILLS
- ° STRENGTHEN THE INDEPENDANT ASSESSMENT PROCESS
- ° ESTABLISH A PLANT MANAGEMENT TEAM WITH ENHANCED RESOURCES AND SKILLS
- ° DEVELOP LICENSED OPERATOR RESOURCES
- ° COMMUNICATE EXPECTATIONS AND PROVIDE TRAINING AND OTHER SUPPORT TO PECC EMPLOYEES

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PEACH BOTTOM ATOMIC POWER STATION
INSPECTION FINDINGS (BY REGION I)

INSPECTIONS CONDUCTED (MARCH 1987 TO PRESENT)

- ° 14 ROUTINE INSPECTIONS
- ° 26 SPECIAL INSPECTIONS:

VIOLATIONS

- ° 1 ESCALATED ENFORCEMENT(ACTIONS PENDING)
- ° 21 LEVEL III AND IV

ALLEGATIONS(6/22/88)

- ° 11/7 OPEN ALLEGATIONS

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LICENSING ACTIONS - STATUS

BACKLOG OVERVIEW

LAST BRIEFING (10/06/87)	CURRENT (7/21/88)	ADDED	COMPLETED
42/40	30/25	12/6	24/21

	CAT 1	CAT 2	CAT 3
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87	0/0	3/3	2/0
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87 COMPLETED BY PM	0/0	0/0	0/0
AMENDMENT REQUESTS RECEIVED PRIOR TO 9/4/87 COMPLETED BY PM	0/0	0/0	0/0

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PEACH BOTTOM ATOMIC POWER STATION
LICENSING ACTIONS - STATUS (CONTINUED)

MAJOR CURRENT ISSUES IN PROGRESS

- ° SER ON RESTART PLAN
- ° DIESEL GENERATOR CAPDOX
- ° CONTROL ROOM CARDOX
- ° MINIMUM SRM CONCENTRATION
- ° DEGRADED VOLTAGE PROTECTION
- ° SECOND TEN YEAR ISI PROGRAM
- ° UNIT 3 RELOAD
- ° ISEG AND OVERTIME CONTROLS
- ° PIPING REPLACEMENT TS AND HEAD SPRAY REMOVAL
- ° IAT INSPECTION

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PEACH BOTTOM ATOMIC POWER STATION
LICENSING ACTIONS - STATUS (CONTINUED)

MAJOR PLANT SPECIFIC ISSUES COMPLETED (JUNE 1987 - PRESENT)

- ° HYDROGEN WATER CHEMISTRY REVIEW
- ° OPERATOR HUMAN FACTORS TRAINING
- ° ORGANIZATIONAL STRUCTURE TS REVISION
- ° UNIT 2 RELOAD
- ° DIESEL GENERATOR FUEL OIL REQUIREMENTS
- ° 50.62 ATWS SEP
- ° MAINTENANCE TEAM INSPECTION
- ° ECP TEAM INSPECTION

PM/REGION 1 ISSUE INTERACTION

- ° IR 86-25 LCO ON ESW PUMPS
- ° IR 87-13 THREE FIRE PROTECTION ITEMS
- ° IR 88-13 SHUTDOWN COOLING ISOLATION

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PEACH BOTTOM ATOMIC POWER STATION
LICENSING ACTIONS - STATUS (CONTINUED)

ISSUES RECEIVING MINIMAL CURRENT ATTENTION

- FG 1.97 INSTRUMENTATION
- SALEM ATWS (3 ITEMS)
- DCPDR
- SPDS
- FIRE PROTECTION PROGRAM
- PIPE BARRIERS
- RELOAD TOPICALS

MAJOR GENERIC ISSUES

- NUREG-0737 ITEMS COMPLETE EXCEPT FOR:
CONTAINMENT ISOLATION DEPENDABILITY, II.E.4.2(7)
- NUREG-0737 SUPPLEMENT 1 ITEMS COMPLETE EXCEPT FOR:
REGULATORY GUIDE 1.97
SPDS
DCRDR FOLLOW UP
- OTHER NPAs COMPLETE EXCEPT FOR:
SALEM ATWS, THREE PARTS
F-99 OVERTIME LIMIT TS

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LIMERICK, UNITS 1 AND 2
PLANT/LICENSEE PERFORMANCE

OVERVIEW

- ° GE BWR 4s WITH MARK II CONTAINMENTS
- ° LOCATED ON SCHUYLKILL RIVER, 1.7 MILES SE OF POTTSTOWN, PA.
- ° MAJOR REORGANIZATION OF ON-SITE STAFF IN FEBRUARY 1988
- ° UNIT 1 OPERATING SINCE AUGUST 1985
- ° UNIT 2 FUEL LOAD TARGETED FOR JUNE 1, 1989; SYSTEM TESTING AND TURNOVER RUNNING AHEAD OF SCHEDULE
- ° ANNUAL FULL PARTICIPATION EMERGENCY EXERCISE CONDUCTED APRIL 5, 1988 WITH FULLY SATISFACTORY RESULTS
- ° ALL COMPONENTS OF POINT PLEASANT DIVERSION PROJECT UNDER CONSTRUCTION

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LIMERICK, UNITS 1 AND 2
PERFORMANCE TRENDS

UNIT 1 SALP (MOST RECENT ENDED 4/30/88)

- 6 CATEGORY 1s: PLANT OPERATIONS, RADIOLOGICAL CONTROLS, MAINTENANCE, SURVEILLANCE, SECURITY AND SAFETY ASSESSMENT/ QUALITY VERIFICATION
- 2 CATEGORY 2s: EMERGENCY PPREPAREDNESS AND ENGINEERING/TECHNICAL SUPPORT.
- NO CATEGORY 3s

UNIT 2 SALP (MOST RECENT ENDED 7/31/87)

- 7 CATEGORY 1s: CONTAINMENT, SAFETY-RELATED STRUCTURES AND MAJOR STEEL SUPPORTS, SOILS & FOUNDATIONS, PIPING SYSTEMS AND SUPPORTS, SAFETY-RELATED COMPONENTS-MECHANICAL, AUXILARY SYSTEMS, ELECTRICAL EQUIPMENT AND CABLE, INSTRUMENTATION AND CONTROL SYSTEMS AND LICENSING ACTIVITIES
- 2 CATEGORY 2s: ENGINEERING AND ASSURANCE OF QUALITY
- NO CATEGORY 3s

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LIMERICK, UNITS 1 AND 2
PERFORMANCE TRENDS (CONTINUED)

PERFORMANCE INDICATIONS-UNIT 1 (DATA THROUGH 06/30/88)

- ° DEVIATION FROM OLDER PLANTS: ABOVE AVERAGE IN THREE INDICATORS, BELOW AVERAGE IN THREE INDICATORS
- ° IMPROVING TREND IN FOUR INDICATORS; DECLINING TREND IN ONE

GENERAL

- ° VERY GOOD SALP SCORES; ONE OF BEST IN REGION
- ° PERFORMANCE OF UNIT 1 HAS BEEN ABOVE AVERAGE

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LIMERICK, UNITS 1 AND 2
LICENSING ACTIONS - STATUS

ANTICIPATED LICENSING ACTIONS NEXT 12 MONTHS

- ° ACTIONS TO BE SUBMITTED IN SUPPORT OF NEXT REFUELING OUTAGE
(COMMENCING JANUARY 14, 1989)
 - CORE RELOAD ANALYSES
 - FOUR AMENDMENTS TO SUPPORT MODIFICATIONS BEING MADE DURING
OUTAGE
 - FOUR AMENDMENTS TO SUPPORT UNIT 2 COMMON SYSTEMS TIE-INS
 - FOUR AMENDMENTS TO CORRECT PROBLEMS
- ° COMPLETION OF REMAINING 4 MPAs (1ST, THREE SALEM ATWS ISSUES)
- ° UNIT 2 TSs
- ° MULTIPLE TEAM INSPECTIONS OF UNIT 2 IDCA PROGRAM

ADEQUACY OF PLANS/SCHEDULES

- ° MONTHLY STATUS MEETING WITH PROJECT MANAGER.
- ° FREQUENT TELEPHONE CONTACT WITH PROJECT MANAGER
- ° COMMITMENT TRACKING SYSTEM
- ° LICENSEE WELL-PREPARED FOR TECHNICAL MEETINGS

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LIMERICK, UNITS 1 AND 2

SUMMARY OVERVIEW

STRENGTHS

- ° EXCEPTIONAL SITE MANAGEMENT AND SUPERVISION PROVIDE LEADERSHIP TO SUPPORT CONTINUED STRONG PERFORMANCE, GOOD RATING AND STRONG SAFETY PERSPECTIVE.
- ° STRONG ORIENTATION TOWARD SAFE PLANT OPERATION BY OPERATORS EXCELLENT LICENSED OPERATOR ATTITUDES.
- ° GOOD WORK ON DRUG ALLEGATIONS AND FITNESS FOR DUTY, MANDATORY ROUTINE DRUG TESTING PROGRAM
- ° GOOD ABILITY TO PROACTIVELY IDENTIFY/PREDICT PROBLEMS, CRITICALLY SELF-EVALUATE PERFORMANCE AND TAKE EFFECTIVE CORRECTIVE ACTIONS.
- ° STRONG CA/OC ORGANIZATION AND PROGRAMS
- ° STRONG EMPHASIS ON HOUSEKEEPING AND COLOR-CODING AND IDENTIFICATION OF ALL SYSTEMS AND COMPONENTS

WEAKNESSES

- ° ENGINEERING SUPPORT FOR OPERATIONS STRAINED DUE TO DEMANDS FOR PEACH BOTTOM AND LIMERICK 2 CONSTRUCTION, LICENSEE TAKING ACTIONS TO CORRECT.
- ° INADEQUATE ATTENTION TO WATER CHEMISTRY AND CORROSION CONTROL HAS RESULTED IN MULTIPLE FUEL FAILURES

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LIMERICK, UNITS 1 AND 2
SUMMARY OVERVIEW (CONTINUED)

OVERALL ASSESSMENT

- VERY GOOD SALP SCORES; ONE OF THE BEST IN THE REGION
- FUEL FAILURES WILL RESTRICT POWER GENERATION TO ABOUT 65% UNTIL SCHEDULED REFUELING (JAN, '89) AND MAY CAUSE EARLIER SHUTDOWN
- NO SCRAMS IN PAST YEARS; NO SIGNIFICANT LERS
NO FORCED OUTAGES AND NO SAFETY SYSTEM FAILURES

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LINERICK UNIT 1
PLANT/LICENSEE PERFORMANCE

MAJOR OPERATING EVENTS

- * DURING STARTUP FROM REFUELING OUTAGE (SEPT. 1987), PLANT TRIP FROM 83% POWER AS A RESULT OF CLOSURE OF TURBINE STOP VALVES DUE TO HIGH LEVEL IN MOISTURE SEPARATOR.
- * AUTOMATIC SCRAM FROM 90% POWER (SEPT. 1987) DUE TO MAIN TURBINE TRIP CAUSED BY FAILURE OF WELD IN ELECTROHYDRAULIC CONTROL SYSTEM.
- * PLANT OPERATED CONTINUOUSLY (195 DAYS) FROM SEPTEMBER 1987 UNTIL A PLANNED SHUTDOWN IN APRIL 1988 TO CLEAN CONDENSER TUBES.
- * FUEL CLADDING LEAK DEVELOPED AT END OF MARCH 1988. OPERATING AT REDUCED POWER TO MINIMIZE ACTIVITY RELEASES

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LIMERICK UNIT 1

PLANT/LICENSEE PERFORMANCE (CONTINUED)

PERFORMANCE INDICATOR OVERVIEW

TRENDS: PLANT DATA LAST 2 QUARTERS RELATIVE TO THE PREVIOUS 4 QUARTERS

DEVIATIONS: PLANT DATA RELATIVE TO INDUSTRY DATA LAST 4 QUARTERS

(DATA THROUGH THE SECOND QUARTER OF 1988 INCLUDED)

INDICATOR	TREND	DEVIATION
AUTO SCRAMS TOTAL	--	B
SAFETY SYSTEM ACTUATIONS	I	B
SIGNIFICANT EVENT FREQUENCY	--	A
SAFETY SYSTEM FAILURES	--	B
FORCED OUTAGE RATE	D	A
EQUIPMENT FORCED OUTAGES	I	A

I = IMPROVED
D = DECLINED
-- = NO CHANGE

A = ABOVE AVERAGE
B = BELOW AVERAGE

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LIMERICK, UNITS 1 AND 2
PLANT/LICENSEE PERFORMANCE (CONTINUED)

SPECIAL LICENSING ACTIONS (JUNE 1987 TO PRESENT)

- ° NO EMERGENCY OR EXIGENT TS CHANGES
- ° ONE TEMPORARY WAIVER OF COMPLIANCE ON ORGANIZATIONAL CHANGES

SIGNIFICANT PERFORMANCE IMPROVEMENT PROGRAMS UNDERWAY OR PLANNED

- ° MAJOR CORPORATE AND SITE REORGANIZATIONS
- ° CONDUCTING IDCA FOR UNIT 2 IN RESPONSE TO SALP
- ° REORGANIZATION OF NFB FROM A COMPLIANCE FOCUSED REVIEW TO AN EXAMINATION OF PROCESS AND PLANT PERFORMANCE
- ° CONSOLIDATION OF ALL PREVIOUSLY FRAGMENTED QA AND QC FUNCTIONS INTO A SINGLE QUALITY ORGANIZATION
- ° STRENGTHENED AND INCREASED SCOPE OF ISEP PROGRAMS
- ° INCREASED ATTENTION TO WATER CHEMISTRY

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LIMERICK 1
NRC SALP RATINGS

FUNCTIONAL AREA	PERIOD 12/1/84-1/31/86	PERIOD 2/1/86-1/31/87	PERIOD 2/1/87-4/30/88
PLANT OPERATIONS	1	1	1
RADIOLOGICAL CONTROLS	2	1	1
MAINTENANCE	2	1	1
SURVEILLANCE	2	1	1
ENGINEERING AND TECHNICAL SUPPORT	NOT EVALUATED	1	2
EMERGENCY PREPAREDNESS	1	1	2
SECURITY AND SAFEGUARDS	3	2	1
SAFETY ASSESSMENT QUALITY VERIFICATION	*	*	1
TRAINING AND QUALIFICATION EFFECTIVENESS	2	1	**
LICENSING ACTIVITIES	1	2	***
ASSURANCE OF QUALITY	1	1	***

*NOT EVALUATED AS A SEPARATE FUNCTIONAL AREA LAST PERIOD

**CRITERION FOR ALL FUNCTIONAL AREAS, AND NO LONGER A SEPARATE AREA

***NOW EVALUATED UNDER SAFETY ASSESSMENT

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LIMERICK 2
NRC SALP RATINGS

FUNCTIONAL AREA	PERIOD 1/1/86-7/31/87
CONTAINMENT, SAFETY-RELATED STRUCTURES, AND MAJOR STEEL SUPPORTS, SOILS & FOUNDATIONS	1
ENGINEERING	2
PIPING SYSTEMS AND SUPPORTS	1
SAFETY-RELATED COMPONENTS-MECHANICAL	1
AUXILIARY SYSTEMS	1
ELECTRICAL EQUIPMENT AND CABLES	1
INSTRUMENTATION AND CONTROL SYSTEMS	1
LICENSING ACTIVITIES	1
PREOPERATIONAL TESTING	NOT RATED
ASSURANCE OF QUALITY	2

NOTE: THIS IS THE FIRST SALP REPORT THAT SPECIFICALLY ADDRESSES LIMERICK GENERATING STATION, UNIT 2, ACTIVITIES. CONSTRUCTION OF UNIT 2 WAS SUSPENDED IN DECEMBER 1983, AT WHICH TIME UNIT 1 WAS STILL UNDER CONSTRUCTION. ALL CONSTRUCTION ACTIVITIES WERE PREVIOUSLY EVALUATED IN A SINGLE FUNCTIONAL AREA WITH UNIT 1 AND THE OVERALL RATING WAS CATEGORY 1. THE LAST CONSTRUCTION SALP COVERED THE ASSESSMENT PERIOD OF 12/1/83 TO 11/30/84 AND WAS ISSUED ON FEBRUARY 7, 1985. PREVIOUS PERFORMANCE IS NOT DIRECTLY RELEVANT TO CURRENT PERFORMANCE DUE TO DIFFERENCES IN CONSTRUCTION PRACTICES.

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LIMERICK, UNITS 1 AND 2
LICENSING ACTIONS - STATUS
BACKLOG OVERVIEW

LAST BRIEFING (6/18/87)		CURRENT (9/30/88)	ADDED	COMPLETED
UNIT 1	20	16	11	15
UNIT 2	5	7	7	5
TOTAL	25	23	18	20

	CAT 1	CAT 2	CAT 3
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87	0	4	0
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87 COMPLETED BY PM	0	2	0
AMENDMENT REQUESTS RECEIVED PRIOR TO 9/4/87 COMPLETED BY PM (6/4/87 TO PRESENT)		1	

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LIMERICK, UNITS 1 AND 2
INSPECTION FINDINGS

INSPECTIONS CONDUCTED (JUNE 1987 TO PRESENT)

UNIT 1

- ° 32 ROUTINE INSPECTIONS
- ° 3 SPECIAL TEAM INSPECTIONS
 - OPERATIONAL READINESS PRIOR TO STARTUP FROM REFUELING
 - EC PROGRAM
 - ANNUAL FULL-PARTICIPATION EMERGENCY PREPAREDNESS EXERCISE

UNIT 2

- ° 26 ROUTINE INSPECTIONS
- ° 1 CONSTRUCTION TEAM INSPECTION
- ° 2 IDCA TEAM INSPECTIONS

VIOLATIONS

- ° ONE ENFORCEMENT CONFERENCE ON REPORTABILITY OF DESIGN PROBLEM IN BOTH UNITS 1 AND 2
- ° UNIT 1 - 1 LEVEL III, 8 LEVEL IV, 2 LEVEL V
- ° UNIT 2 - 4 LEVEL IV, 3 LEVEL V

ALLEGATIONS

- ° NONE OPEN

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LIMERICK, UNITS 1 AND 2
LICENSING ACTIONS - STATUS (CONTINUED)

MAJOR CURRENT ISSUES IN PROGRESS

UNIT 1

- ° IST
- ° SALEM ATWS (2.1, 2.2, 4.5.2 AND 4.5.3)

UNIT 2

- ° PSI
- ° TSs
- ° IDVP

MAJOR PLANT SPECIFIC ISSUES COMPLETED (JUNE 1987 - PRESENT)

UNIT 1

- ° ISI
- ° 10 CFR 50.62 REVIEWS (ATWS RULE)
- ° TURBINE INSPECTION PROGRAM
- ° ASLB HEARING ON TS AMENDMENT

MAJOR GENERIC ISSUES

- ° IST - RESPONSE TO RFI EXPECTED NOVEMBER 1988
- ° SALEM ATWS - SERS EXPECTED DECEMBER 1988

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LIMERICK, UNITS 1 AND 2
PLANT/LICENSEE PERFORMANCE

PLANT PERSONNEL OVERVIEW

- ° STABLE WORK FORCE-LOW TURNOVER RATE
- ° 6 OPERATING SHIFTS (8½ HOURS DURATION FOR OVERLAP)
 - 1 SHIFT IN TRAINING AT ANY GIVEN TIME
 - 1 SHIFT USED AS "UTILITY AND RELIEF" AT ANY GIVEN TIME
 - ROTATE WITH CLOCK (I.E., DAY, AFTERNOON, NIGHT, TRAINING AND UTILITY), OPERATORS WORK DAY SHIFT OVER HALF THE TIME)
- ° 6 STAs, ALL WITH ENGINEERING DEGREES PLUS 1 BACKUP, ROTATE WITH THEIR SHIFT
- ° 42 LICENSED OPERATORS ON SHIFT (20 SRO, 22 RO), 20 ADDITIONAL SROs IN MANAGEMENT AND ENGINEERING
- ° ALL TRAINING PROGRAMS ARE ACCREDITED BY INPO
- ° FITNESS FOR DUTY AND MANDATORY DRUG TESTING PROGRAMS INPLACE

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LIMERICK, UNITS 1 AND 2
PLANT/LICENSEE PERFORMANCE (CONTINUED)

MAJOR OPERATING EVENTS

- ° FUEL CLADDING LEAKS OCCURRING SINCE MARCH 1988
- ° RUPTURE OF EHC PIPING FOLLOWING MODIFICATION CAUSED TURBINE TRIP AND SCRAM
- ° OPERATING VALVES OUT OF SEQUENCE WHEN SWITCHING RHR PUMPS DRAINED 60" OF WATER FROM REACTOR VESSEL INTO SUPPRESSION POOL

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SUSQUEHANNA, UNITS 1 AND 2
PLANT/LICENSEE PERFORMANCE

OVERVIEW

- ° TWO UNITS SITE - GE BWR 4
- ° MARK II CONTAINMENT
- ° PROJECT MANAGER TRAVEL SINCE LAST BRIEFING
 - 6 VISITS TO THE SITE/LICENSEE HQ
 - 8 VISITS TO THE REGION
- ° NEW FIFTH EMERGENCY DIESEL GENERATOR (PM WALKDOWN PRIOR TO APPROVAL)
- ° PERFORMED SPECIAL INSPECTIONS
 - ECR FOR VENTING
 - ELECTRICAL ISOLATION ALLEGATION
- ° EMERGENCY OPERATIONS FACILITY TECHNICAL SUPPORT CENTER AND OPERATIONS SUPPORT CENTER ARE WELL EQUIPPED
- ° SUSQUEHANNA SIMULATOR OPERATIONAL (SINGLE UNIT ONLY)
- ° INDEPENDENT VERIFICATION OF EMERGENCY RESPONSE OF THE PLANT SYSTEMS AND OFFSITE EMERGENCY RESPONSE CAPABILITY COMPLETED
- ° LICENSEE PARTICIPATED IN IDCOR IPE PROGRAM DEVELOPMENT: ON 12-11-87 GAVE NPC MANAGEMENT EXCELLENT PRESENTATION ON INSIGHTS GAINED FROM IPE ANALYSES.

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SUSQUEHANNA, UNITS 1 AND 2
PLANT /LICENSEE PERFORMANCE (CONTINUED)

- ° EFFICIENT EMERGENCY PREPAREDNESS PROGRAM AND WELL TRAINED EMERGENCY RESPONSE PERSONNEL
- ° HARRY KEISER PROMOTED TO SENIOR VICE PRESIDENT-NUCLEAR (VICE PRESIDENT-NUCLEAR OPERATIONS POSITION NOT FILLED); MONITOR FOR ANY CHANGES IN PERFORMANCE
- ° LICENSEE IS ENGAGED IN COST REDUCTION EFFORTS; MONITOR IMPACTS ON SAFETY

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SUSQUEHANNA, UNITS 1 AND 2
PERFORMANCE TRENDS

SALP (PERIOD ENDED JANUARY 31, 1988)

- ° NINE RATINGS OF "1"
- ° NO RATINGS OF "3"
- ° IMPROVED IN QUALITY ASSURANCE
- ° DECLINED IN RADIOLOGICAL CONTROLS AND ENGINEERING:
THE LICENSEE PRACTICE OF FREQUENT SUPERVISOR ROTATION
LED TO SUPERVISOR NOT MEETING THE REQUIRED TECHNICAL
QUALIFICATIONS OF RADIOLOGICAL CONTROLS SUPERVISOR
- ° LICENSEE'S ENGINEERING RESOURCES APPEARED STRAINED

PERFORMANCE INDICATORS

- ° BETTER THAN AVERAGE: ONE OF THE BEST PERFORMERS IN THE
REGION
- ° BOTH UNITS IMPROVED IN 4 AREAS EACH
- ° BOTH UNITS DECLINED IN 1 AREA EACH
- ° UNIT 1 WAS ABOVE AVERAGE IN 4 AREAS AND UNIT 2 WAS ABOVE
AVERAGE IN 5 AREAS
- ° UNIT 1 WAS BELOW AVERAGE IN 2 AREAS AND UNIT 2 WAS BELOW
AVERAGE IN 1 AREA

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SUSQUEHANNA, UNITS 1 AND 2
PERFORMANCE TRENDS (CONTINUED)

GENERAL

- ° MANAGEMENT CONTINUES TO BE CLOSELY INVOLVED IN PLANT OPERATIONS
- ° RECENT REFUELING OUTAGE MANAGEMENT FOR UNIT NO. 2 HAS RUN INTO MULTIPLE PROBLEMS - REGION I AND NRR ARE MONITORING ROOT CAUSE EVALUATIONS

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SUSQUEHANNA, UNITS 1 AND 2
LICENSING ACTIONS STATUS

LICENSEE HAS BEEN VERY ACTIVE: THE PM HAS HANDLED A HEAVY LOAD IN A TIMELY FASHION

ANTICIPATED LICENSING ACTIONS NEXT 12 MONTHS

BY THE END OF 1ST QUARTER OF 1989 THE LICENSEE EXPECTS TO SUBMIT 36 NEW PLANT SPECIFIC ACTION REQUESTS: LARGELY CATEGORY 2 WORKS, MOSTLY HANDLED BY THE PM

FIRE PROTECTION REVIEW REPORT REVISION SUBMITTED JUNE 30, 1988

COMMON MODE FAILURE POTENTIAL ALLEGATION/ELECTRICAL AND CONTROL ISOLATION ISSUES UNDER REVIEW

ATWS RULE REVIEW: SYSTEMS REVIEW COMPLETE/INST. 2 CONT. REVIEW PENDING

ADEQUACY OF PLANS/SCHEDULES

LICENSEE STAFF WELL PREPARED FOR MEETINGS

EMERGENCY PREPAREDNESS RATED SALP CATEGORY 1

SECURITY AND SAFEGUARDS CAPABILITY RATED SALP CATEGORY 1

QUALITY ASSURANCE RATED SALP CATEGORY 1

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SUSQUEHANNA UNITS 1 AND 2
LICENSING ACTIONS STATUS - (CONTINUED)

- ° RADIOLOGICAL CONTROLS RATED SALP CATEGORY 2
- ° OUTAGE MANAGEMENT DECLINED IN CURRENT UNIT 2 OUTAGE-RECENT SALP RATING IS CATEGORY 1

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SUSQUEHANNA UNITS 1 AND 2
LICENSEE INITIATIVES

REGULAR QUARTERLY MEETINGS WITH NRC TO DISCUSS LICENSING
ISSUES AND SCHEDULES

ADVANCE PLANNING INCLUDES CLOSE INTERFACE WITH NRC PRIOR TO
SUBMITTAL

INITIATES SAFETY STUDIES AND INFORMS NRC OF POTENTIAL NEW
ISSUES

PARTICIPANT IN IDCOR IPE METHODOLOGY DEVELOPMENT

MAINTAINS ACTIVE RISK ASSESSMENT CAPABILITY AND REVIEWS ALL
LICENSING AND UTILITY INITIATED ACTIONS IN TERMS OF RISK
REDUCTION

HAVE EXCELLENT BRIEFING TO THE NRC MANAGEMENT ON INSIGHTS
GAINED FROM IPE ANALYSES

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SUSQUEHANNA, UNITS 1 AND 2

SUMMARY OVERVIEW

STRENGTHS

- DEDICATED TOP MANAGEMENT PROMOTES HIGH STANDARDS AND EXCELLENCE IN PERFORMANCE; GOOD SAFETY ETHIC
- A SUBSTANTIAL EFFORT IS BEING PUT INTO STREAMLINING TECHNICAL SPECIFICATIONS
- INSTALLATION OF THE FIFTH EMERGENCY DIESEL GENERATOR HAS ENHANCED RELIABILITY OF POWER SUPPLY
- CONTINUOUS SELF ASSESSMENT AND INDEPENDENT VERIFICATION OF OTHERS' WORK (E.G. CONTRACTORS ANALYSES): THE NRC SALP ASSESSMENTS VIEWED SERIOUSLY
- THE LICENSEE FIRMLY BELIEVES IN INHOUSE ENGINEERING AND RISK ANALYSIS CAPABILITY WITH MINIMAL CONTRACTOR SUPPORT
- IPE CAPABILITY IS USED AS A LIVING TOOL FOR RISK MANAGEMENT, PROCEDURES IMPROVEMENT AND PLANT MODIFICATIONS
- INDEPENDENT VERIFICATION OF EMERGENCY RESPONSE OF THE PLANT SYSTEMS AND OFFSITE SYSTEMS
- 10 CFR 50.59 REVIEWS ARE WELL DOCUMENTED AND GIVE ASSURANCE OF WELL MANAGED MODIFICATION PROGRAM

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SUSQUEHANNA, UNITS 1 AND 2
SUMMARY INTERVIEW (CONTINUED)

WEAKNESSES

- ° CURRENT SALP INDICATES PROBLEMS IN THE RADIOLOGICAL CONTROLS PROGRAM AND ENGINEERING RESOURCES MAY BE STRESSED
- ° EQUIPMENT QUALIFICATION PROGRAM APPEARS TO HAVE SOME PROBLEMS: REGION 1 ESCALATED ENFORCEMENT CONFERENCE WITH THE LICENSEE, MINIMUM CIVIL PENALTY IMPOSED.
- ° RECENT UNIT 2 OUTAGE MANAGEMENT PROBLEMS MAY BE INDICATIVE OF DECLINING MIDDLE MANAGEMENT CONTROL ON THE OUTAGES: LICENSEE HAS SET UP A TASK FORCE UNDER CHUCK MYERS TO ASSESS THE PROBLEMS AND PROPOSE FIXES

OVERALL ASSESSMENT

- ° CONTINUED HIGH LEVEL MANAGEMENT ATTENTION IS EVIDENT
- ° PRESENCE OF MOTIVATED WORK CULTURE
- ° EFFORTS UNDERWAY TO IMPROVE FIRE PROTECTION AND EQ PROGRAMS. REVISED FIRE PROTECTION PROGRAM EXCEEDS NRC REQUIREMENTS
- ° UNIT 2 OUTAGE DIFFICULTIES NEED A CLOSER LOOK: NRR/REGION 1 WILL MONITOR AND REVIEW TASK FORCE REPORTS
- ° NRC EXPENDED CONSIDERABLE INSPECTION RESOURCES DURING LAST SALP PERIOD (ABOUT 5000 INSPECTION HOURS IN 18 MONTHS)

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SUSQUEHANNA, UNITS 1 AND 2
PLANT/LICENSEE PERFORMANCE

PLANT PERSONNEL OVERVIEW

- ° APPROXIMATELY 1200 LICENSEE PERSONNEL ON SITE
- ° STABLE WORKFORCE
- ° 6 ROTATIONAL WORK SHIFTS (3 WORKING - 1 OFF - 1 TRAINING - 1 RELIEF)
- ° 35 SENIOR REACTOR OPERATORS AND 29 REACTOR OPERATORS
- ° 23 SENIOR REACTOR OPERATORS AND 24 REACTOR OPERATORS ASSIGNED TO SHIFT DUTIES
- ° 6 SHIFT TECHNICAL ADVISERS ASSIGNED TO WORK SHIFTS
- ° INPO ACCREDITED TRAINING
- ° GOOD PAST RECORD OF PASSING REACTOR OPERATOR EXAMINATIONS
- ° BUT IN 1987 4 FAILED AND 5 PASSED

MAJOR OPERATING EVENTS

- ° UNIT 2 HAD A CONTINUOUS RUN OF 313 DAYS - RECORD RUN FOR GE SECOND CYCLE OPERATION
- ° UNIT 2 FEEDWATER SPARGER NOZZLES DAMAGED DURING STEAM SEPARATOR INSTALLATION (FOLLOWING A REFUELING OUTAGE)

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SUSQUEHANNA, UNITS 1 AND 2
PLANT/LICENSEE PERFORMANCE (CONTINUED)

MAJOR OPERATING EVENTS

- ° FUEL POOL WATER DEMIN RESIN INADVERTENTLY FLUSHED INTO THE PLANT PIPING LEADING TO RADIATION HOT SPOTS IN THE PIPING
- ° PROBLEM EVENTS APPEAR TO OCCUR DURING OUTAGES

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SUSQUEHANNA, UNITS 1 AND 2
PLANT/LICENSEE PERFORMANCE (CONTINUED)

PERFORMANCE INDICATOR OVERVIEW

TRENDS: PLANT DATA LAST 2 QUARTERS RELATIVE TO THE
PREVIOUS 4 QUARTERS

DEVIATIONS: PLANT DATA RELATIVE TO INDUSTRY DATA LAST 4 QUARTERS
(DATA THROUGH THE SECOND QUARTER OF 1988 INCLUDED)

INDICATOR	TREND		DEVIATION	
	UNIT 1	UNIT 2	UNIT 1	UNIT 2
AUTO SCRAMS TOTAL	D	I	A	A
SAFETY SYSTEM ACTUATIONS	--	I	A	A
SIGNIFICANT EVENT FREQUENCY	I	D	B	B
SAFETY SYSTEM FAILURES	I	--	A	A
FORCED OUTAGE RATE	I	I	B	A
EQUIPMENT FORCED OUTAGES	I	I	A	A

I = IMPROVED
D = DECLINED
-- = NO CHANGE

A = ABOVE AVERAGE
B = BELOW AVERAGE

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SUSQUEHANNA, UNIT 1 AND 2
PLANT/LICENSEE PERFORMANCE (CONTINUED)

SPECIAL LICENSING ACTIONS (JUNE 1987 TO PRESENT)

- ° 3 EMERGENCY TECH SPEC CHANGES
- ° NO DISCRETIONARY ENFORCEMENTS/TEMPORARY WAIVER OF COMPLIANCE

SIGNIFICANT PERFORMANCE IMPROVEMENT PROGRAMS UNDERWAY OR PLANNED

- ° NONE

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SUSQUEHANNA, UNITS 1 AND 2

INSPECTION FINDINGS

INSPECTIONS CONDUCTED (APRIL 1987 TO PRESENT)

- ° ROUTINE INSPECTIONS: 23 ON UNIT 1 - 18 ON UNIT 2
- ° VENTING EOP INSPECTION BY NRR - MARCH, 1988

VIOLATIONS

- ° NO ESCALATED ENFORCEMENT
- ° UNIT 1 - 4 LEVEL IV
UNIT 2 - 1 LEVEL IV AND 1 LEVEL V

ALLEGATIONS

- ° 9 OPEN ALLEGATIONS

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LICENSING ACTIONS - STATUS

BACKLOG OVERVIEW

LAST BRIEFING (6/11/87)		CURRENT (6/01/88)	ADDED	COMPLETED
UNIT 1	21	19	20	22
UNIT 2	17	17	25	25
TOTAL	38	36	45	47

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SUSQUEHANNA, UNIT 1 AND 2
LICENSING ACTIONS - STATUS (CONTINUED)

MAJOR CURRENT ISSUES IN PROGRESS

- ° FEEDWATER SPARGER DAMAGE RECOVERY AND RESTART JUSTIFICATION
- ° DCPDR REVIEW ESSENTIALLY COMPLETE
- ° INSEVICE TESTING PROGRAM UNDER REVIEW
- ° ELECTRICAL & CONTROL ISOLATION ALLEGATION UNDER REVIEW

MAJOR PLANT SPECIFIC ISSUES COMPLETED (JUNE 1987 - PRESENT)

- ° REVIEW OF CORE PHYSICS REPORT
- ° PHR WATERHAMMER MODIFICATION REVIEW
- ° JUSTIFICATION FOR CONTINUED OPERATION WITH DAMAGED FEEDWATER SPARGER NOZZLES
- ° SINGLE LOOP OPERATION AND THERMAL HYDRAULIC STABILITY

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SUSQUEHANNA, UNITS 1 AND 2
LICENSING ACTIONS - STATUS (CONTINUED)

MAJOR GENERIC ISSUES

- ° NUREG-0737 ITEMS COMPLETE
- ° NUREG-0737 SUPPLEMENT 1 ITEMS IMPLEMENTED. REVIEWS COMPLETE EXCEPT FOR:
 - PROCEDURES GENERATION PACKAGE
 - SPDS REVIEW
 - DCRDR REVIEW
 - METEOROLOGICAL DATA UPGRADE
- ° FIRE PROTECTION REPORT SCHEDULED TO BE COMPLETE IN JUNE 1988
- ° OTHER MPAs COMPLETE EXCEPT FOR:
 - A-20 OPERATING REACTOR REVIEWS (10 CFR 50.62)
 - FOUR PARTS OF SALEM ATWS GENERIC LETTER

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SUSQUEHANNA, UNITS 1 AND 2

SALP CATEGORY TENDS

FUNCTIONAL AREA	PERIOD 2/1/84-4/30/85	PERIOD 5/1/85-7/31/86	PERIOD 8/1/86-1/31/88
PLANT OPERATIONS	2	1	1
CHEMISTRY AND RADIOLOGICAL CONTROLS	1	1	2
MAINTENANCE	1	1	1
SURVEILLANCE	2	1	1
EMERGENCY PREPAREDNESS	1	1	1
SECURITY AND SAFEGUARDS	1	1	1
REFUELING AND OUTAGE MANAGEMENT	1	1	1
ASSURANCE AND QUALITY	NOT EVALUATED	2	1
LICENSING ACTIVITIES	1	1	1
ENGINEERING SUPPORT	NOT EVALUATED	1	2
TRAINING AND QUALIFICATION EFFECTIVENESS	NOT EVALUATED	1	1

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SHOPEHAM

PLANT/LICENSEE PERFORMANCE

OVERVIEW

- ° LICENSEE: LONG ISLAND LIGHTING COMPANY
- ° LOCATION: SHOREHAM, NO. SHORE OF LONG ISLAND, NY
- ° POPULATION: 10 MILES - 164,442 (1990 PROJECTION)
50 MILES - 5,750,606 (1990 PROJECTION)
- ° ARCHITECT-ENGINEER: STONE & WEBSTER
- ° REACTOR TYPE: BWR-4
- ° CONTAINMENT TYPE: MARK II
- ° POWER: 846 MWE
- ° COOLING: ONCE-THROUGH, LONG ISLAND SOUND
- ° OPERATING LICENSE: NPF-36, JULY 3, 1985 (5%)
- ° TRAINING CENTER AND SIMULATOR: OPERATIONAL
- ° OTHER: HEAVILY LITIGATED (EMERGENCY PLANNING ISSUES)

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SHOREHAM
PERFORMANCE TRENDS

SALP (MOST RECENT ENDED 7/31/87)

- ° 6 CATEGORY 1s: PLANT OPERATIONS & STARTUP TESTING, RADIOLOGICAL CONTROLS, EMERGENCY PPEAREDNESS, SECURITY AND SAFEGUARDS, LICENSING ACTIVITIES, AND ASSURANCE OF QUALITY
- ° 4 CATEGORY 2s: MAINTENANCE (IMPROVING), SURVEILLANCE, ENGINEERING AND CORPORATE TECHNICAL SUPPORT, AND TRAINING AND QUALIFICATION EFFECTIVENESS (IMPROVING)
- ° NO CATEGORY 3s

PERFORMANCE INDICATORS (DATA THROUGH 06/30/88)

- ° ABOVE AVERAGE DEVIATIONS FROM NEWER PLANTS IN 6 AREAS
- ° BELOW AVERAGE DEVIATION FROM NEWER PLANTS IN 0 AREAS
- ° IMPROVED TRENDS IN 1 INDICATOR
- ° ZERO TREND IN 5 INDICATORS

GENERAL

- ° OVERALL PERFORMANCE IS IMPROVING

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SHOREHAM
LICENSING ACTIONS - STATUS

ANTICIPATED LICENSING ACTIONS NEXT 12 MONTHS

- DECOMMISSIONING (OR)
- FULL POWER LICENSE (OR)
- 25% OF FULL POWER LICENSE
- COMPLETED PGP REVIEW
- EDC LICENSE CHANGE
- ORGANIZATION CHARTS REMOVED FROM TECH SPEC
- ASLP FINDING ON REMANDED ISSUES (EBS, HOSPITAL EVACUATION, SCHOOL BUS ROLE CONFLICT)
- ASLE FINDING ON LEGAL AUTHORITY ISSUES
- ASLAB FINDING ON LILCO'S APPEAL OF THE 2/1/88 ID - EXERCISE OF PLAN

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SHOPEHAM

LICENSING ACTIONS - STATUS (CONTINUED)

ADEQUACY OF PLANS/SCHEDULES

- ° INTEGRATED LIVING SCHEDULE (LITTLE INTEREST)
- ° ISAP - II (LITTLE INTEREST)

LICENSEE INITIATIVES

- ° SUPPLEMENTAL CONTAINMENT SYSTEM
- ° DAILY TELEPHONE CONTACT WITH PROJECT MANAGER

MAJOR CURRENT ISSUES IN PROGRESS

- ° FULL POWER LICENSING (REMANDED & LEGAL AUTHORITY ISSUES, AND LITIGATION OF SECOND EXERCISE)
- ° 25% POWER LICENSING (SEP EXCLUDING EP IN FINAL CONCURRENCE)
- ° DECOMMISSIONING (INFORMATION PAPER IN FINAL CONCURRENCE)

MAJOR PLANT SPECIFIC ISSUES COMPLETED (JUNE 1987 - PRESENT)

- ° 50.54(A) EXEMPTION
- ° SECOND GRADED EXERCISE OF THE EMERGENCY PLAN
- ° INSTALLATION OF THE REDUNDANT SET OF EDGS (PLANT NOW HAS 6 EDGS)
- ° GUIDANCE ON SUPPLEMENTAL CONTAINMENT SYSTEM

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SHOREHAM

LICENSING ACTIONS - STATUS (CONTINUED)

MAJOR GENERIC ISSUES

- ° NUREG-0737 SUPPLEMENT 1 ITEMS COMPLETE EXCEPT FOR:
 - PROCEDURES GENERATION PACKAGE
 - REGULATORY GUIDE 1.97 (IMPLEMENTATION)
 - SPDS
 - DCRDR

- ° OTHER MAJOR MPAS COMPLETE EXCEPT FOR:
 - SALEM ATWS ISSUES
 - INSERVICE TESTING (IST)
 - INSERVICE INSPECTION (ISI)

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SHOREHAM
SUMMARY OVERVIEW

STRENGTHS

- ° DEDICATED AND COMPETENT PLANT STAFF
- ° GOOD PROGRAMS IN QA, RADIOLOGICAL PROTECTION, SECURITY AND EMERGENCY PLANNING
- ° QA INVOLVED IN PLANT OPERATIONS AND MAINTENANCE
- ° RESPONSIVE MANAGEMENT

WEAKNESSES

- ° LACK OF OPERATIONAL EXPERIENCE (DUE TO DELAY) IN LICENSING
- ° LOWERING STAFF MORALE DUE TO NY/LILCO AGREEMENT (BEING MONITORED BY SRI W/SR LILCO MANAGEMENT, NO SAFETY PROBLEM IDENTIFIED YET)
- ° LAST SALP NOTED LACK OF FOLLOW UP OF MAINTENANCE PROJECTS BY FIRST LINE MANAGEMENT (LILCO RECENTLY FORMED A PLANNING MAINTENANCE GROUP - TOO EARLY TO ASSESS THE EFFECT OF CHANGE, BUT APPEARS TO BE IN CORRECT DIRECTION).
- ° ALARA CONCERNS IN RADWASTE AREA (LILCO IDENTIFIED, SRI & REG I ARE FOLLOWING CORRECTIVE ACTIONS)

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SHOREHAM

SUMMARY OVERVIEW (CONTINUED)

SUMMARY ASSESSMENT

- SITE MANAGEMENT TAKES AN ACTIVE ROLE IN DAY-TO-DAY OPERATIONS
- CORPORATE MANAGEMENT PROVIDES STRONG SUPPORT FOR PROGRAMS
- OVERALL PLANT PERFORMANCE IS SATISFACTORY

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SHOREHAM

PLANT/LICENSEE PERFORMANCE

PLANT PERSONNEL OVERVIEW

- ° STABLE WORK FORCE (VERY LOW TURNOVER 4 OR 5 LICENSES HAVE LEFT SINCE LICENSING STARTED)
- ° 6 OPERATING SHIFTS (8-HOUR DURATION)
- ° 1 SHIFT IN TRAINING AT ANY GIVEN TIME
- ° 21 LICENSED OPERATORS ON PLANT STAFF - 21 SROs
- ° 37 LICENSED OPERATORS ON SHIFT DUTIES - 13 SROs, 24 ROs
- ° 6 SHIFT ENGINEERS (STAs) - ALL DEGREED
- ° TRAINING PROGRAMS ACCREDITED BY INPO
- ° SHOREHAM BECAME A BRANCH MEMBER OF THE NATIONAL ACADEMY FOR NUCLEAR TRAINING ON APRIL 19, 1988 WHEN THE FOLLOWING PROGRAMS WERE ACCREDITED (EQUIPMENT, REACTOR, & SENIOR REACTOR OPERATORS, HEALTH PHYSICS, & RADIOCHEMISTRY TECHNICIANS AND SHIFT TECHNICAL ADVISOR)
- ° NEXT INPO ACCREDITATION TEAM VISIT WILL BE CONDUCTED THE WEEK OF MAY 9, 1988 FOR THE REMAINING PROGRAMS OF:
(ELECTRICAL MAINTENANCE, MECHANICAL MAINTENANCE, I&C TECHNICIANS AND TECHNICAL STAFF AND MANAGERS)

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SHOREHAM

PLANT/LICENSEE PERFORMANCE (CONTINUED)

MAJOR OPERATING EVENTS

° NONE

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PLANT/LICENSEE PERFORMANCE (CONTINUED)

PERFORMANCE INDICATOR OVERVIEW

TRENDS: PLANT DATA LAST 2 QUARTERS RELATIVE TO THE PREVIOUS 4 QUARTERS

DEVIATIONS: PLANT DATA RELATIVE TO INDUSTRY DATA LAST 4 QUARTERS

(DATA THROUGH THE SECOND QUARTER OF 1988 INCLUDED)

INDICATOR	TREND	DEVIATION
AUTO SCRAMS TOTAL	--	A
SAFETY SYSTEM ACTUATIONS	--	A
SIGNIFICANT EVENT FREQUENCY	--	A
SAFETY SYSTEM FAILURES	I	A
FORCED OUTAGE RATE	--	A
EQUIPMENT FORCED OUTAGES	--	A

I = IMPROVED
D = DECLINED
-- = NO CHANGE

A = ABOVE AVERAGE
B = BELOW AVERAGE

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SHOREHAM

PLANT/LICENSEE PERFORMANCE (CONTINUED)

SPECIAL LICENSING ACTIONS (1/1/87 TO PRESENT)

- ° NO EMERGENCY TECH SPEC CHANGES
- ° NO DISCRETIONARY ENFORCEMENTS/TEMPORARY WAIVERS OF COMPLIANCE

SIGNIFICANT PERFORMANCE IMPROVEMENT PROGRAMS UNDERWAY OR PLANNED

- ° REVISING EOPs TO REVISION 4
- ° DEVELOPING ACTION PLAN TO IMPROVE SALP RATINGS
- ° RADWASTE AREA ALARA IMPROVEMENT PROGRAM
- ° FORMATION OF MAINTENANCE PLANNING GROUP

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SHOPEHAM

INSPECTION FINDINGS

INSPECTIONS CONDUCTED (JUNE 1987 TO PRESENT)

- 15 ROUTINE INSPECTIONS
- 2 SPECIAL INSPECTIONS

VIOLATIONS

- NO ESCALATED ENFORCEMENT
- 2 LEVEL IV
- 2 LEVEL V

ALLEGATIONS

- 1 OPEN ALLEGATION

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LICENSING ACTIONS - STATUS
BACKLOG OVERVIEW

LAST BRIEFING (4/10/87)	CURRENT (4/01/88)	ADDED	COMPLETED
29	33	13	7

	CAT 1	CAT 2	CAT 3
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87	0	4	0
AMENDMENT REQUESTS RECEIVED AFTER 9/4/87 COMPLETED BY PM	0	0	0
AMENDMENT REQUESTS RECEIVED PRIOR TO 9/4/87 COMPLETED BY PM (6/4/87 TO PRESENT)			<u>1</u>

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SHOPEHAM

NUCLEAR POWER STATION

SALP SUMMARY

PERIOD ENDING	02/85	02/86	07/87
PLANT OPERATIONS	1	2	1
RADIOLOGICAL CONTROLS AND CHEMISTRY	1	3	1
MAINTENANCE AND OTHER OUTAGE MANAGEMENT	1	2	2
SURVEILLANCE	1	2	2
EMERGENCY PREP.	-	1	1
SECURITY & SAFEG.	1	1	1
ENGINEERING SUPPORT	1	-	2
LICENSING ACTIVITES	2	3	1
ASSURANCE OF QUALITY	-	2	1
TRAINING & QUALIFICATION EFFECTIVENESS	-	3	2
