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Bruce D. Kenyon Vice President-Nuclear Operations 215/770-7502

JUN 0 1 1984

Mr. R. W. Starostecki, Director Division of Project and Resident Programs U.S. Nuclear Regulatory Commission Region I 631 Park Avenue King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION RESPONSE TO SALP - 1984 ER 100450 FILE 841-04 PLA-2220

Docket Nos. 50-387 and 10-388

Dear Mr. Starostecki:

We appreciated the opportunity to meet with you and your staff on May 21 to review your assessment of PP&L's performance over the past year. While we recognize that the SALP Board Reports were generally favorable, we welcome your suggestions and will continue to seek to improve our performance in all areas.

In reviewing the reports we noted several concerns of NRC. These were discussed at the May 21 meeting and we believe these discussions were mutually beneficial. Therefore, PP&L does not plan to submit any additional comments on the report. Copies of the presentations made at the May 21 meeting are attached for your information.

Very truly yours,

B. D. Kenyon

Vice President-Nuclear Operations

cc: Mr. R. L. Perch - USNRC Bethesda Mr. R. H. Jacobs - USNRC Resident

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LICENSEE EVENT REPORTS

CONCERN: NOT ALL CORRECTIVE ACTIONS INCLUDED

PERFORMANCE IMPROVEMENT PLANS / ACTIONS

- O INCREASED MANAGEMENT ATTENTION INCLUDES

 SUPERINTENDENT SECTION HEAD EVALUATOR

 REVIEW MEETING OF LER'S PRIOR TO RELEASE
- 0 LER'S WRITTEN IN ACCORDANCE WITH NUREG 1022, LICENSEE EVENT REPORT SYSTEM
- O INCREASE LEVEL OF EXPERTISE OF EVALUATORS

OPERATIONAL IMPROVEMENTS

0	STABILIZED OPERATIONS MANAGEMENT
0	IMPROVED SUPERVISORY CONTROL OF SHIFT TURNOVER
0	INTRODUCED UNIT SUPERVISOR, ASST. UNIT SUPERVISOR
	AND PCO TURNOVER SHEETS
0	SUPERVISOR OF OPERATIONS WEEKLY MEETING WITH
	TRAINING SHIFT.
0	TECHNICAL SPECIFICATION / SURVEILLANCE TASK FORCE
0	TECHNICAL SPECIFICATION TRAINING FOR OPERATIONS
0	LOGGING / REVIEWING OF PLANT ALARMS
0	COL VERIFICATIONS
0	INPO HUMAN PERFORMANCE EVALUATION SYSTEM (HPES)
0	OPERATIONS ENHANCEMENT PROGRAM
n	WATCHSTANDING STUDY

PROCEDURES

- 1. ALARM RESPONSE PROCEDURES FOR LOCAL PANELS
- 2. GENERAL GUIDELINES FOR DAILY BUSINESS
- NEED FOR CENTRALIZED REVIEW POINT FOR ALL PROCEDURES AND REVISIONS.
- 4. PROGRAM FOR PERIODIC REVIEWS
- 5. OFF NORMAL PROCEDURES MUST BE WRITTEN FOR RADWASTE OPERATION AND WATER MANAGEMENT
- 6. COL GUIDELINES AFTER EXTENDED OUTAGES
- 7. EMERGENCY OPERATING PROCEDURE PROGRAM

WATCH STANDING STUDY

GOAL: TO IMPROVE AND DEFINE THE ROLE

OF OPERATORS IN AWARENESS/CONTROL

OF PLANT STATUS / ALARMS

- O ASSIGNED PLANT MANAGEMENT TO REVIEW SHIFT LOGS,
 PANELS, T / O AND PLANT STATUS
- O INITIATED NSAG STUDY
- O INITIATED INPO REVIEW
- O INITIATED REVIEW OF SSES WATCH STANDING PRACTICES

 BY SENIOR MANAGEMENT PERSONNEL FROM OTHER

 FACILITIES
- O EVALUATING MERITS OF HAVING OPERATIONS PERSONNEL
 VISIT OTHER FACILITIES TO STUDY WATCH STANDING
 PRACTICES

RESULTS OF NSAG STUDY

STUDY CONSISTED OF ~ 142 HOURS OF CONTROL ROOM
OBSERVATION AND ~ 44 HOURS OF IN-PLANT OBSERVATION

- SHIFT TURNOVER THOROUGH AND ADEQUATE
- CONTROL ROOM RESPONSE TO ALARMS EXCELLENT
- PLANT EVOLUTIONS WELL CONTROLLED
- LOGS MAINTAINED SATISFACTORILY
- SENIOR MANAGEMENT INVOLVEMENT ADEQUATE
- BACKGROUND NOISE IN CONTROL ROOM EXCESSIVE

OPERATIONS ENHANCEMENT PROGRAM

GOAL: TO REDUCE EVENTS THROUGH MANAGEMENT

IMPROVEMENTS - ADMINISTRATIVE,

TECHNICAL, AND WORK PRACTICES

- O 15 20 PROBLEM CATEGORIES

 EQUIPMENT, PROCEDURES, DELEGATION OF AUTHORITY,

 COMMUNICATIONS, OR ATMOSPHERE, TRAINING,

 EQUIPMENT STATUS, ETC.
- O EACH CATEGORY WILL BE REVIEWED, RECOMMENDATIONS

 MADE, AND SOLUTIONS IMPLEMENTED

CHEMISTRY PROGRAM ENHANCEMENTS

~	DECDEANITED	CHOLID	ATBUCTURE
11	REORGANIZED	GRITTE	CIRIII HIRE
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- O PLANT-EXPERIENCED SENIOR ENGINEER
 - ASSIGNED TO CHEMISTRY
- O ADDITIONAL CHEMISTS ASSIGNED
- O FULL-TIME CHEMISTRY OJT TRAINING
 - COORDINATOR ON-SITE (FORMER TECHNICIAN)
- O IMPLEMENTATION OF TECHNICIAN TRAINING
 - PROGRAM AT NUCLEAR TRAINING CENTER
- O DEVELOPMENT OF CHEMISTRY QA PROGRAM

IMPLEMENTING PROCEDURES

TER RESOLUTION IMPROVEMENTS

I. ADMINISTRATIVE CHANGES (AD-TY-460)

A. NPE ROLE

- 1. NOW PART OF THE TRC QUORUM.
- NOW RESPONSIBLE FOR OBTAINING ALL TER RESOLUTIONS.
- 3. NOW AN INTEGRAL PART OF THE SHIFT STARTUP TEAM.
- 4. NOW APPROVES ST ACCEPTANCE CRITERIA, TEST
 OBJECTIVES AND TEST METHOD.

B. SHIFT STARTUP TEAM CONCEPT

- DEDICATED STARTUP PERSONNEL ON SHIFT NO CONCURRENT DUTIES DURING TESTING.
- SHIFT TEST ENGINEER ONE PERSON ON SHIFT RESPONSIBLE FOR ON-SHIFT RELATED ACTIVITIES.
- 3. INCREASED NUMBER OF QUALIFIED TEST DIRECTORS.
- C. GREATER EMPHASIS PLACED ON MAINTAINING GOOD STARTUP LOG.
- D. RE-WRITE OF TEST PROCEDURES TO INCORPORATE UNIT I

 LESSONS LEARNED-SHOULD REDUCE NUMBER OF TER'S.

 DURING OPEN VESSEL TESTING, ONLY 3 TER'S WERE

 WRITTEN ON UNIT 2 AS OPPOSED TO 28 ON UNIT I.

TEST PROGRAM TRAINING

- A. ATTENDED BY STARTUP TEST DIRECTORS, STARTUP
 TEST ENGINEERS, SHIFT TEST ENGINEERS.
- B. CLASSROOM ADMINISTRATIVE TRAINING
 - 6 HOURS, TAUGHT BY STARTUP TEST GROUP SUPERVISOR.
 - DISCUSSED IN DETAIL CONTENTS OF AD-TY-460 INCLUDING:
 - A. OVERALL GOALS OF ST PROGRAM
 - B. QA REQUIREMENTS
 - c. PROCESSING OF TER'S.
- C. CLASSROOM TECHNICAL TRAINING
 - TEST OBJECTIVES, ACCEPTANCE CRITERIA AND TEST METHOD OF ALL ST'S.
 - 2. REVIEW OF UNIT I PROBLEMS.
- D. SIMULATOR TECHNICAL TRAINING
 - 1. 40 HOURS ON SIMULATOR
 - 2. RAN ALL ST'S AS PRACTICABLE.
- E. OJT ADMINISTRATIVE TRAINING
 - 1. 3 HOURS
 - RE-EMPHASIZED ADMIN CONTROLS, INCLUDING TER PROCESSING.

SURVEILLANCE PROGRAM

OBJECTIVE : ASSURE THAT TECHNICAL SPECIFICATION REQUIREMENTS ARE IDENTIFIED, PROCEDURALLY ADDRESSED, AND IMPLEMENTED.

MEANS :

- * SURVEILLANCE TASK FORCE
- COMPREHENSIVE MATRIX DEVELOPMENT
- . COMPREHENSIVE PROCEDURE REVIEWS BY INDEPENDENT GROUP

SURVEILLANCE PROCEDURE REVIEW SCOPE OF ACTIVITY

SURVEILLANCE PROCEDURE REVIEW

UNIT 1	586
UNIT 2	587
COMMON	115
TOTAL	. 1288

• MATRIX LINE ITEMS

UNIT 1	(INCLUDING	PUMP &	VALVE	TEST	RQMTS.)	2000	ITEMS
UNIT 2	(INCLUDING	PUMP &	VALVE	TEST	RQMTS.)	2000	ITEMS
TOTAL	L MATRIX REG	UIREME	NTS REV	/ I EWEI)	4000	ITEMS

PROCEDURE BASIS DOCUMENTS (ONE/PROCEDURE) .	1288
MULTIPLE PROCEDURE REVIEWS	200
TOTAL NUMBER OF BASIS DOCUMENTS TO GENERATE	1488

SURVEILLANCE PROCEDURE REVIEW RESOURCE EXPENDITURE

- O 80 MAN-MONTHS TO DATE
- O REVIEWS ENCOMPASSED APPROXIMATELY 700 DRAWINGS AND OTHER DOCUMENTATION INCLUDING:
 - GE ELECTRICAL SCHEMATICS
 - BECHTEL ELECTRICAL SCHEMATICS
 - BECHTEL P&ID'S
 - INSTALLATION, OPERATING & MAINTENANCE MANUALS
 - FSAR

SURVEILLANCE PROCEDURE REVIEW

RESULTS:

- COMPLETED RESPONSE TO NSAG REPORT #5-83.
- TASK FORCE ISSUED FINAL POSITIONS ON "PHILOSOPHICAL ISSUES"
- SCHEDULING SYSTEM UNDER REVIEW.
- UNIT 1 AND UNIT 2 MATRICES REVIEW COMPLETED.
- BASES DOCUMENTS ESTIMATED COMPLETION 6/30/84
- IDENTIFIED 150 SURVEILLANCE ACTION ITEMS (SAI's)
- RECEIVED RESPONSES ON 117 SAI's.

QUALIFIED PERSONNEL/STAFFING LEVELS

RESPONSIVENESS TO REGULATORY CONCERNS

PRACTICE OF ESTABLISHING STRONG MANAGEMENT CONTROLS WITH FEEDBACK MECHANISMS

PRACTICE OF DEALING WITH REGULATORY
AND PUBLIC ISSUES DIRECTLY

RESPONSIVE IN INITIATING CORRECTIVE ACTIONS
WHEN WEAKNESSES ARE IDENTIFIED

CAPABILITY TO OPERATE/MAINTAIN
A TWO-UNIT SSES

COMPREHENSIVE

TRAINING

EVALUATION

TWO TYPES

-PROCESS-

-PRODUCT-

PROCESS

VALIDATION OF CURRICULUM

-JOB ANALYSIS - 1981

-CURRICULUM COMMITTEE - 1981

-SME REVIEW - 1981

-ES REVIEW - 1982

-CHANGE TRACKING - 1981 (1984)

PROCESS

DELIVERY

STUDENT CRITIQUE 1977

INSTRUCTOR EVALUATION 1981

SELF

PEER

SUPERVISORY

OUTSIDE (PENN STATE)

SIMULATOR FIDELITY 1979-1984

PRODUCT

GRADE ANALYSIS 1983

FOLLOW-UP 1983

-INDIVIDUAL



-SUPERVISORY