

U. S. NUCLEAR REGULATORY COMMISSION

REGION I

DOCKET/REPORT No. 50-322/90-04

LICENSE No. NPF-82

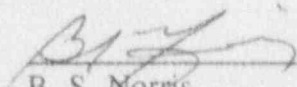
LICENSEE: Long Island Lighting Company
P. O. Box 618, North Country Road
Wading River, New York 11792

FACILITY NAME: Shoreham Nuclear Power Station

DATES: August 26 - December 29, 1990

INSPECTORS: E. Brown, Project Manager, NRR
P. Harris, Reactor Engineer, RI
B. Norris, Project Inspector (Shoreham)
J. Raleigh, Project Engineer, NRR

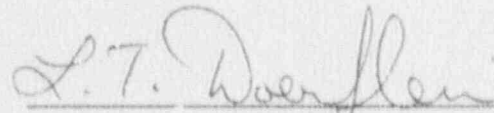
INSPECTOR:



B. S. Norris
Project Inspector (Shoreham)

6 Feb 91
Date

APPROVED BY:



L. T. Deerflein, Chief
Reactor Projects Section 2B

2/7/91
Date

AREAS INSPECTED:

Routine, on-site inspection by members of the Region I Office and NRR staff consisting of facility tours, fitness for duty program, system layup review, housekeeping, maintenance observations, modification of ventilation system, physical plant security, and review of licensee reports.

EXECUTIVE SUMMARY

FACILITY STATUS

Shoreham Nuclear Power Station is shut down and defueled. The licensee continues to maintain the facility in a manner consistent with the status of the plant.

The Long Island Lighting Company (LILCo) has been corresponding with the NRC with respect to their desire to ship fuel support castings and peripheral pieces from the reactor vessel. The NRC has responded that LILCo should wait until a possession only license has been issued.

SURVEILLANCE AND MAINTENANCE

The reactor vessel has been drained and placed in a layup condition. LILCo has decontaminated the reactor vessel, reactor cavity, and the dryer separator pit by a combination of manual cleaning and hydro-lazing. The biological shields have been replaced over the reactor cavity.

STAFFING AND STAFF TRAINING

The overall staffing levels at Shoreham remain stable and the morale of the staff continues to be high. The Nuclear Quality Assurance Department was incorporated into the Corporate Quality Assurance Organization.

LILCo has submitted a request for a modification to the Licensed Operator Requalification Program to reduce the scope of the program to reflect the actual conditions of the plant. Additionally, they have requested that they be allowed to delete the simulator requirement from the requalification program.

SECURITY

LILCo has submitted a request to amend the Physical Security Plan to modify the protected area and to eliminate all vital areas. A security guard was accompanied on rounds, he was knowledgeable of his duties and responsibilities.

RADIOLOGICAL CONTROLS

The ALARA and occupational exposure controls programs, and the implementation of the programs, were reviewed. They appear well managed and have been implemented with a proper focus on plant activities. Health Physics coordinates efforts with maintenance to prevent any job holdup time, resulting in more efficient job completion.

EXECUTIVE SUMMARY (cont.)

FITNESS FOR DUTY PROGRAM

The Fitness for Duty Program was reviewed and found to be in accordance with 10 CFR 26. A review of the testing records indicates an excellent trend of negative results with only one pre-badging positive and one random sampling positive out of nearly 1,000 tests.

There were, however, two occurrences of problems with the testing laboratory used by Shoreham. Both of these problems were found by LILCo personnel and reported to the NRC. Both instances had to do with the laboratory contracted by LILCo to analyze the samples. The central receiving department of the laboratory twice redirected the samples from the designated laboratory to another laboratory. LILCo is in the process of taking corrective action to prevent further reoccurrence of the issue. This item is unresolved pending further review.

NUCLEAR REVIEW BOARD MEETING

The Project Inspector observed a portion of the periodic Nuclear Review Board meeting held in December, 1990. The meeting was well organized and the information was presented clearly. Information provided to the board members was consistent with information provided to the NRC on earlier occasions.

COMMISSIONER VISIT

Commissioner Curtiss toured the Shoreham site in November, 1990, and met with representatives from LILCo, the Long Island Power Authority (LIPA), and the New York Power Authority (NYPA).

Shoreham Decommissioning Plan

LIPA has submitted the Shoreham Decommissioning Plan and the Supplement to Environmental Report (Decommissioning), the documents are currently under review.

TABLE OF CONTENTS

	<u>Page</u>
EXECUTIVE SUMMARY	i
1.0 FACILITY STATUS	1
1.1 General Status	1
1.2 Shipment of Reactor Vessel Internals	1
2.0 SURVEILLANCE AND MAINTENANCE	1
2.1 Reactor Vessel Draining	2
2.2 Decontamination Efforts	2
2.3 Housekeeping	2
3.0 STAFFING AND STAFF TRAINING	2
3.1 Staffing Levels and Organizational Changes	2
3.2 Modification to the Licensed Operator Requalification Program	3
4.0 SECURITY	3
5.0 RADIOLOGICAL CONTROLS	3
6.0 FITNESS FOR DUTY PROGRAM	4
6.1 Review of the Fitness for Duty Program	4
6.2 Discrepancies Identified with Roche Laboratories	4
7.0 NUCLEAR REVIEW BOARD MEETING	5
8.0 COMMISSIONER VISIT	6
9.0 REVIEW OF LICENSEE EVENT REPORTS	6
10.0 REVIEW OF REPORTS	7
10.1 Periodic and Special Reports	7
10.2 Shoreham Decommissioning Plan	7
11.0 MANAGEMENT MEETINGS	7
11.1 LILCo Drop-in Visit	7
11.2 Exit Meeting	7
LIST OF ATTACHMENTS	8

DETAILS

1.0 FACILITY STATUS

1.1 General Status

Shoreham Nuclear Power Station (SNPS) has been shut down since 1980 due to an agreement between the State of New York and Long Island Lighting Company (LILCo), the owner and operator of SNPS. The facility is defueled, the fuel is in the spent fuel pool, and most non-essential systems are in a layup condition. The licensee continues to maintain the facility in a manner consistent with the status of the plant.

1.2 Shipment of Reactor Vessel Internals

In a letter dated September 24, 1990, LILCo informed the NRC of their intention to ship 137 fuel support castings and 12 peripheral pieces from the reactor vessel. The NRC responded in a letter dated October 1, 1990, stating that shipment should be delayed until after a possession only license had been issued. In the Commission order of October 17, 1990, CLI-90-08, it was noted that the NRC Staff did not need to perform a review or analysis for resumed operation of Shoreham as a nuclear power plant as an alternative power source under the National Environmental Policy Act (NEPA). On November 8, 1990, LILCo again informed the NRC of their intention to ship the fuel support castings and peripheral pieces; their reiteration was based, in part, on the Commission's decision. The NRC responded, on November 14, 1990, that the shipment of the fuel support pieces required a license amendment, and that an exigent amendment would be processed. LILCo answered on November 16, 1990, that they did not understand the need for NRC authorization, but that they would wait for the approval. A public notice was issued on November 19, 1990, announcing LILCo's intention to ship the castings and peripheral pieces.

On December 11, 1990, LILCo informed the NRC that they had received additional information with respect to the urgency of shipping the support pieces. Based on that new information, LILCo reevaluated and rescinded their initial characterization that the matter of shipping of the fuel support pieces required exigent circumstances.

2.0 SURVEILLANCE AND MAINTENANCE (37700, 42700, 54834, 61726, 62703, 71707, 71710, 71715, 86700)

The inspectors reviewed the below activities to verify that work was being done in accordance with approved procedures, that systems were properly returned to service, and that Quality Control was involved, as required. During this process, the associated procedures listed in Attachment 1 were reviewed.

2.1 Reactor Vessel Draining

LILCo drained the reactor vessel during the reporting period in preparation for placing the vessel in a layup condition and eventual decontamination of the vessel and associated reactor coolant systems. One of the concerns prior to the draining was the potential radiation levels when the shielding effect of the water was removed. Results showed that the highest readings were less than 3mr/hr. LILCo is attempting to maintain humidity below 35% within the vessel by attaching dehumidifiers to the recirculation loops. Work was performed in accordance with the associated procedures and appropriate radiological precautions were taken to minimize exposure to the workers. No problems were noted within this area.

2.2 Decontamination Efforts

LILCo cleaned and decontaminated the reactor vessel, reactor cavity, and the dryer separator pit. The methods were a combination of manual cleaning and hydro-lazing with a high pressure stream of water. The inspector monitored portions of the activities and noted that the personnel were familiar with the procedures and the equipment. The final portion of the cleaning was accomplished with the hydro-lazing equipment. The biological shield blocks have been returned to cover the reactor cavity. No problems were noted within this area.

2.3 Housekeeping

LILCo has made a concerted effort to maintain the cleanliness of the plant. Areas that the inspector noted as being a problem due to trash collecting and surface deterioration of some of the components were discussed with plant management, these areas especially showed improvement during the inspection period.

3.0 STAFFING AND STAFF TRAINING (36800, 41701)

3.1 Staffing Levels and Organizational Changes

Although there are slight oscillations in the manning of specific departments, the overall staffing levels at Shoreham remain stable. The morale of the staff continues to be high.

During the reporting period, the Nuclear Quality Assurance Department (NQAD) was integrated into the LILCo Corporate Quality Assurance Organization. The Manager, NQAD, will report to the Manager of Corporate QA for policy, personnel, and administration; for daily operational matters, the Manager, NQAD, continues to report to the Vice President, Offices of Corporate Services and Nuclear. The NQAD will remain physically on site.

The Safety Engineering and Reliability Division has been dissolved. The division's responsibilities have been reassigned or have been determined to be no longer applicable to operation of the Shoreham station. One reassignment of note is the Independent Safety Engineering Group, which was reassigned to report directly to the Manager, NQAD.

3.2 Modification to the Licensed Operator Requalification Program

On August 31, 1990, LILCo has submitted a request for a modification to the Licensed Operator Requalification Program. The request actually contains two requests: (1) LILCo requests that they be allowed to revise the training program for the licensed operators to reflect the actual condition of the plant. Currently, they are required to maintain a requalification program as if the plant was operating at 100% power; this is based on the fact they still possess a full power license. (2) The other part of the request is that they be exempted from the requirement that they use a simulator as part of the licensed operator requalification training program. This request is under review by NRR. Pending approval, LILCo continues to abide by the requirements of the requalification program.

4.0 SECURITY (81018, 81700)

On October 9, 1990, LILCo has submitted a request to amend the Physical Security Plan. The proposal is requesting to modify the protected area and to eliminate all vital areas; additionally, the proposal would institute a "secured area" and "special security areas" and would relocate the access controls. This general description is not Safeguards Information per 10 CFR 73. This request is also under review by NRR.

The inspector accompanied a security guard on his normal rounds to assess his knowledge of the responsibilities and duties of the security force. The areas observed were the boundary of the protected area and the outside buildings. The guard was knowledgeable of his duties and responsibilities. No problems were noted within this area.

5.0 RADIOLOGICAL CONTROLS (83728, 83750)

The inspector noted that the occupational exposure controls and ALARA programs appear well managed and have been implemented with a proper focus on plant activities. The HP efforts have been coordinated with maintenance as to prevent any job holdup time. This results in more efficient job completion.

The ALARA program appears well managed with a good interface with all parties involved with a job that has the potential to subject personnel to an exposure. However, due to an initial low estimate for the quarter and extensive efforts to reduce the external radiation levels of shipping casks containing the damaged nuclear instrumentation detectors to well below the Department of Transportation limits, the third quarter 1990 ALARA goals were exceeded.

The inspector did not identify any concerns with the radiological controls programs or the activities observed.

6.0 FITNESS FOR DUTY PROGRAM (2515/106)

6.1 Review of the Fitness for Duty Program

The inspector reviewed the recently approved Fitness for Duty (FFD) Program and the alcohol and drug screening procedures and found them to be in accordance with 10 CFR 26. Although there had been delays in the actual testing times due to administrative problems with a local health service, the program appears to be well managed and implemented. The problem with the testing times has been rectified. A review of the testing records indicates an excellent trend of negative results with only one pre-badging positive and one random sampling positive out of nearly 1,000 tests. The alcohol testing is performed using state of the art equipment.

6.2 Discrepancies Identified with Roche Laboratories

There were, however, two occurrences of problems with the testing laboratory used by Shoreham. Both of these problems were found by LILCo personnel and reported to the NRC. The two occurrences are related and may be generic to other licensees who use the same laboratory; NRR and Region I are evaluating the generic implications:

First Occurrence

In early December, 1990, during an internal audit of the FFD program by the QA department, it was noted that a Roche laboratory other than the LILCo approved laboratory had analyzed the samples. At this time, Shoreham was using a Roche laboratory located in Columbus, Ohio, and the samples were sent to a Roche laboratory located in Triangle Square, North Carolina. Coincidentally, during this same time frame, the laboratory in Triangle Square had been suspended from the National Institute on Drug Abuse (NIDA) list of certified drug testing laboratories. All of the samples were initially reported as negative. LILCo took immediate corrective action to have the samples reanalyzed and confirmed negative. Furthermore, LILCo discussed this with Roche management and came to the conclusion that it was a mistake on the Roche personnel in the central receiving and distribution center. Since this appeared to be an isolated occurrence, Shoreham felt that the corrective action taken was appropriate.

Second Occurrence

Although the second occurrence was after the close of the inspection period, it is being discussed here for continuity. Subsequent to the previous occurrence, the laboratory in Columbus, Ohio, lost its certification and the one in Triangle Square reacquired its certification; consequently, LILCo amended its contract with Roche to use the laboratory in Triangle Square. In January of this year, during a review of the analysis results by LILCo personnel, they noted that the analysis had again been performed by a laboratory other than the one it contracted. Roche Laboratories had built a new laboratory in Rariton, New Jersey, and was also utilizing this new facility as its central distribution center. The Rariton

laboratory is certified, but was not inspected by LILCo. When the samples were received from LILCo at the Rariton facility, a decision was made by the distribution people to have the analysis done at Rariton vice Triangle Square. LILCo supplied the address labels for the samples to assure they are sent to the contracted laboratory, but the address label was evidently ignored. All samples were reported negative.

After the second occurrence, LILCo has taken measures to minimize the chance of additional occurrences. (1) LILCo has developed a new mailing label that specifically states that the package is to be opened only by the indicated laboratory. (2) LILCo has planned a Quality Assurance inspection of the Rariton facility to determine if the facility meets the requirements of the Shoreham Fitness for Duty Program; if the results of the inspection are not satisfactory, LILCo intends to have the samples reanalyzed. (3) LILCo has planned a QA inspection of a second certified facility to allow for a backup laboratory in the event of another reoccurrence by Roche Laboratories. In both instances LILCo notified the NRC of the problem and corrective actions. This issue remains unresolved (50-322/90-04-01) pending NRC review of the effectiveness of these corrective actions and generic applicability.

7.0 NUCLEAR REVIEW BOARD MEETING (40500)

The Nuclear Review Board held its periodic meeting on December 12-13, 1990, at the Shoreham site. The Project Inspector observed a portion of the meeting held on the second day. The portion observed included:

- Shoreham Outlook Summary
- Nuclear Operations Support Department Overview
- License Transfer Status
- Plant Staff Overview
- Decontamination Program
- Briefing of the Status of Rancho Seco and Fort St. Vrain
- Nuclear QA Overview
- Nuclear Engineering Overview
- Spent Fuel Disposition

The inspector noted that the composition of the board was in accordance with the Technical Specifications. The meeting was well organized and the information was presented clearly. Questions asked by the board members were answered consistent with information provided to the NRC on earlier occasions by LILCo. The meeting was effective in that the board members were encouraged to express any concerns they had; additionally, the board members openly responded to all questions with a direct answer. Handouts associated with the NRB meeting are included as Attachment 3 to this report. No concerns were identified by the inspector.

8.0 COMMISSIONER VISIT

Commissioner Curtiss visited the Shoreham site on November 13, 1990, to tour the facility and meet with representatives from LILCo, the Long Island Power Authority (LIPA), and the New York Power Authority (NYPA). Commissioner Curtiss was accompanied by his Legal Assistant, his Technical Assistant, the Regional Administrator-Region I, the NRR Project Manager, and the Project Inspector-Shoreham.

The plant tour was conducted by the Shoreham Plant Manager. Accompanying the Commissioner and his party were the LILCo Vice President, Office of Nuclear, the Shoreham Manager of Quality Assurance, the Counsel for LIPA, and the NYPA Resident Manager. The tour included the diesel generators, control room, reactor building, refueling floor, containment, turbine building, radiological waste building, and the outside auxiliary buildings.

Following the plant tour, discussions were held where in LILCo/LIPA/NYPA personnel discussed current plant status, nuclear quality assurance, spent fuel disposal plans, LIPA and the license transfer efforts, the decommissioning plan and schedule, and the ongoing licensee activities. Copies of the handouts from the discussions are included as Attachment 2 to this report.

9.0 REVIEW OF LICENSEE EVENT REPORTS (LERS) (90712, 92700)

The below listed LERs were submitted to the NRC:

LER No.	
LER Date	
<u>Event Date</u>	<u>Subject</u>
90-005, Rev 0	Failure of Primary Containment Electrical Penetration
08/29/90	Assembly Modules
04/18/90	
90-006, Rev 0	Inoperability of Ultimate Heat Sink
08/31/90	
08/20/90	
90-007, Rev 0	Unplanned Actuation of Engineered Safety Feature Systems
09/28/90	During an I&C Surveillance Test
09/07/90	
90-008, Rev 0	Unplanned Actuation of Engineered Safety Feature Systems
10/05/90	Due to a Lighting Strike
09/15/90	

The inspector reviewed each of the LERs to verify that the details were clearly reported, and that the corrective action was adequate. The review also considered whether further investigation was required, if generic implications were indicated, and whether on-site follow-up was warranted. It was determined that there was no common root cause. The inspector had no further questions with respect to these reports.

10.0 REVIEW OF REPORTS (90713)

10.1 Periodic and Special Reports

The reports listed in Attachment 1 were reviewed to verify that the information was technically adequate, submitted in a timely manner, and satisfied the appropriate reporting requirements, as required. No problems were observed in this area.

10.2 Shoreham Decommissioning Plan

On December 29, 1990, LIPA submitted the Shoreham Decommissioning Plan, per 10 CFR 50.82(a), and the Supplement to Environmental Report (Decommissioning), per 10 CFR 51.53(b). These documents are currently under review.

11.0 MANAGEMENT MEETINGS (30702, 30703, 94702)

11.1 LILCo Drop-in Visit

Mr. John Leonard visited the regional office on September 11, 1990, to update the NRC on the status of Shoreham and projected schedules for upcoming activities. The drop-in visit was documented in a letter to LILCo, with the topics of discussion listed. The letter and its enclosure are included in this report as Attachment 4.

11.2 Exit Meeting

The issues within this report were discussed with licensee management throughout the inspection period. A verbal summary was provided by Mr. B. Norris to Mr. L. Calone, Plant Manager, at a meeting on December 14, 1990, at the Shoreham site. A copy of a news release was given to the Plant Manager on October 25, 1990, relating to a laboratory used for drug analysis being temporarily suspended from the qualified list. Based upon the NRC Region I review of this report and discussions with licensee representatives, it was determined that this report does not contain any proprietary information or safeguards information subject to 10 CFR 2.790 restrictions.

LIST OF ATTACHMENTS

- | | |
|--------------|---|
| Attachment 1 | Documents Reviewed |
| Attachment 2 | Handouts from Commissioner Curtiss' Visit to Shoreham |
| Attachment 3 | Handouts from the NRB Meeting on Dec. 13, 1990 |
| Attachment 4 | Letter Documenting Drop-In Visit by John Leonard, LILCo |

Attachment 1

Documents Reviewed

ATTACHMENT 1

DOCUMENTS REVIEWED

LILCo NED SAFETY EVALUATION REPORTS

88-076, Rev 1	90-023, Rev 0	90-031, Rev 0
89-026, Rev 0	90-025, Rev 0	90-032, Rev 0
89-037, Rev 0	90-027, Rev 0	90-033, Rev 0
89-061, Rev 0	90-028, Rev 0	90-035, Rev 0
90-015, Rev 0	90-030, Rev 0	

LILCo DEFICIENCY REPORTS

<u>Closed</u>			<u>Open</u>	
89-139	90-053	90-084	90-101	90-108
90-025	90-067	90-088	90-102	90-109
90-030	90-070	90-090	90-103	90-110
90-032	90-075	90-098	90-104	90-123
90-038	90-077	90-102	90-105	
90-043	90-078		90-106	
90-045	90-080		90-107	

RADIOLOGICAL INCIDENT REPORTS

- 90-01
- 90-02

QUALITY CONTROL SURVEILLANCE INSPECTION REPORTS

- SI-90-132 Housekeeping on Refueling Floor
- SI-90-134 Maintenance & HP During Disassembly of MOV-040 for Radiological Characterization
- SI-90-140 Maintenance & HP During Disassembly of MOV-041 for Radiological Characterization
- SI-90-148 Radwaste Material Handling

QUALITY CONTROL SURVEILLANCE REPORTS

- 90-073 Radioactive Waste Shipping
- 90-096 Site Structural Characterization & Decontamination Phase
- 90-097 Site Structural Characterization & Decontamination Phase
- 90-093 Radioactive Waste Shipping

ATTACHMENT 1 (cont.)

DOCUMENTS REVIEWED

NUCLEAR QUALITY ASSURANCE REPORTS

- NQAD Audit Schedules for 1990 & 1991
- Audit Program Status Report for 1990
- NRB Program Audit Status Report for 1990
- Open Audit Finding and Corrective Action Report Status as of 12/07/90
- Quality Hotline Program Status Report for 1990
- Deferred Audit Finding Status Report as of 12/07/90

PROCEDURES

- SP-23.621.02, Rev 0 Reactor Vessel Draining
- Fitness for Duty Program, Rev 1
- Standing Order 25, Rev 22 Operator Duties
- Applied Science & Technologies (ASTE) procedure for the use of Water Blasting (Hydro-Lazing) to clean the contaminated portions of the reactor vessel and cavity, and the dryer-separator pit

OTHER REPORTS

- Safeguards Event Log for July 1, 1990 through September 30, 1990
- LILCo response to NRC Information Notice 88-23, Supplement 3
- LILCo response to NRC Information Notice 88-63, Supplement 1
- LILCo response to NRC Information Notice 90-48
- LILCo response to Generic Letter 89-10, Supplement 3
- LILCo memorandum (NSD-90-1800, dated Nov 2, 1990) clarifying use of carbon steel lock washers for installation of diesel generator crankcase pressure sensor, and associated Engineering & Design Coordination Report H-1378 and Purchase Order-384123

MONTHLY OPERATING REPORTS

- August
- September
- October
- November

Attachment 2
Handouts from
Commissioner Curtiss'
Visit to Shoreham

SHOREHAM
NUCLEAR POWER
STATION

COMMISSIONER CURTISS
VISIT TO SHOREHAM
NOVEMBER 13, 1990

OFFICE OF NUCLEAR OBJECTIVES

- ESTABLISH LEAST COSTS POSTURE CONSISTENT WITH MAINTAINING OPERATING LICENSE
- ENSURE ALL EXPENDITURES ARE PRUDENT AND CONSISTENT WITH TERMS OF THE AGREEMENT
- MEET REQUIREMENTS OF EXISTING 100% LICENSE (AND SUBSEQUENT OL AMENDMENTS) THAT MUST BE CONTINUED GIVEN PLANT STATUS
- OBTAIN A POSSESSION ONLY LICENSE (POL) WITH REDUCED TECHNICAL SPECIFICATIONS
- TRANSFER "LICENSE" TO LIPA/NYPA

LILCO

A.F. EARLEY, JR.
PRESIDENT

J.D. LEONARD, JR.
VP, COPR. SERVICES
&
VP, NUCLEAR

L.J. CALONE
PLANT MANAGER

R.M. KASCSAK
MANAGER, NUCLEAR
ENGINEERING DEPT.

R. GUTMANN
MANAGER, NUCLEAR
OPS SUPPORT DEPT

W.M. MALONEY
MANAGER, NUCLEAR
QUALITY ASSURANCE

S.S. SKORUPSKI
ASST. VP & DIRECTOR
OF TRAINING

J.M. KELLY
MANAGER, CORPORATE
QUALITY ASSURANCE

D.M. CROOKER
MANAGER, EMERGENCY
PREPAREDNESS

W.J. TUNNEY
MANAGER, NMP-2
OVERSITE GROUP

J.J. McCANTHY
SUPERVISOR, NDS
GROUP

GROUP VP,
ENGINEERING & OPS
VP, ENGINEERING

J.P. NOVARRO
MANAGER, POWER
ENGINEERING

K.D. SMALLING
MANAGER, ELECTRICAL
ENGINEERING

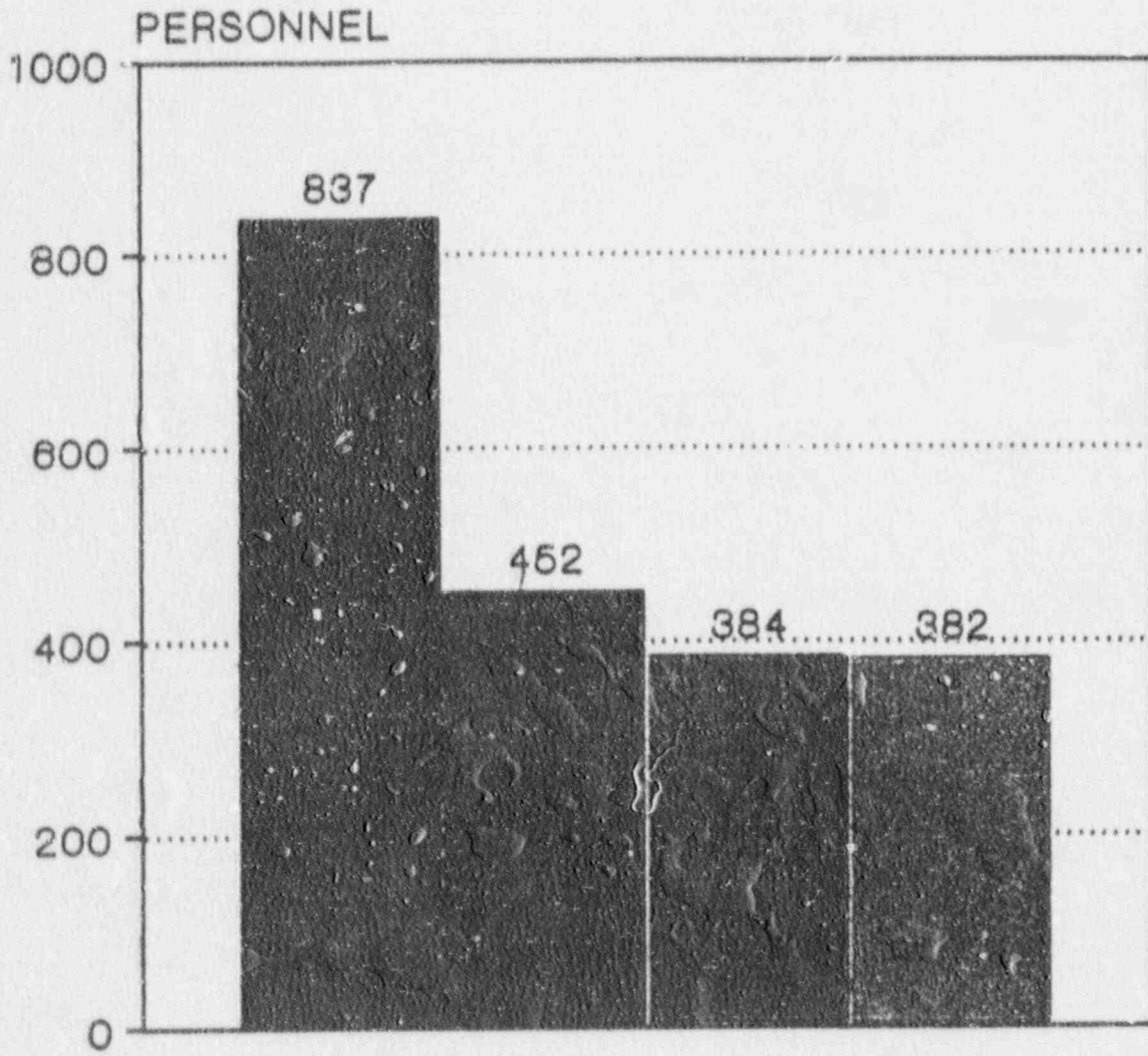
M.H. MILLIGAN
MANAGER, CIVIL & ARCH.
ENGINEERING

M.H. MILHOUS
MANAGER, ENVIRONMENTAL
ENGINEERING

OFFICE OF NUCLEAR MAJOR ACTIVITY HIGHLIGHTS

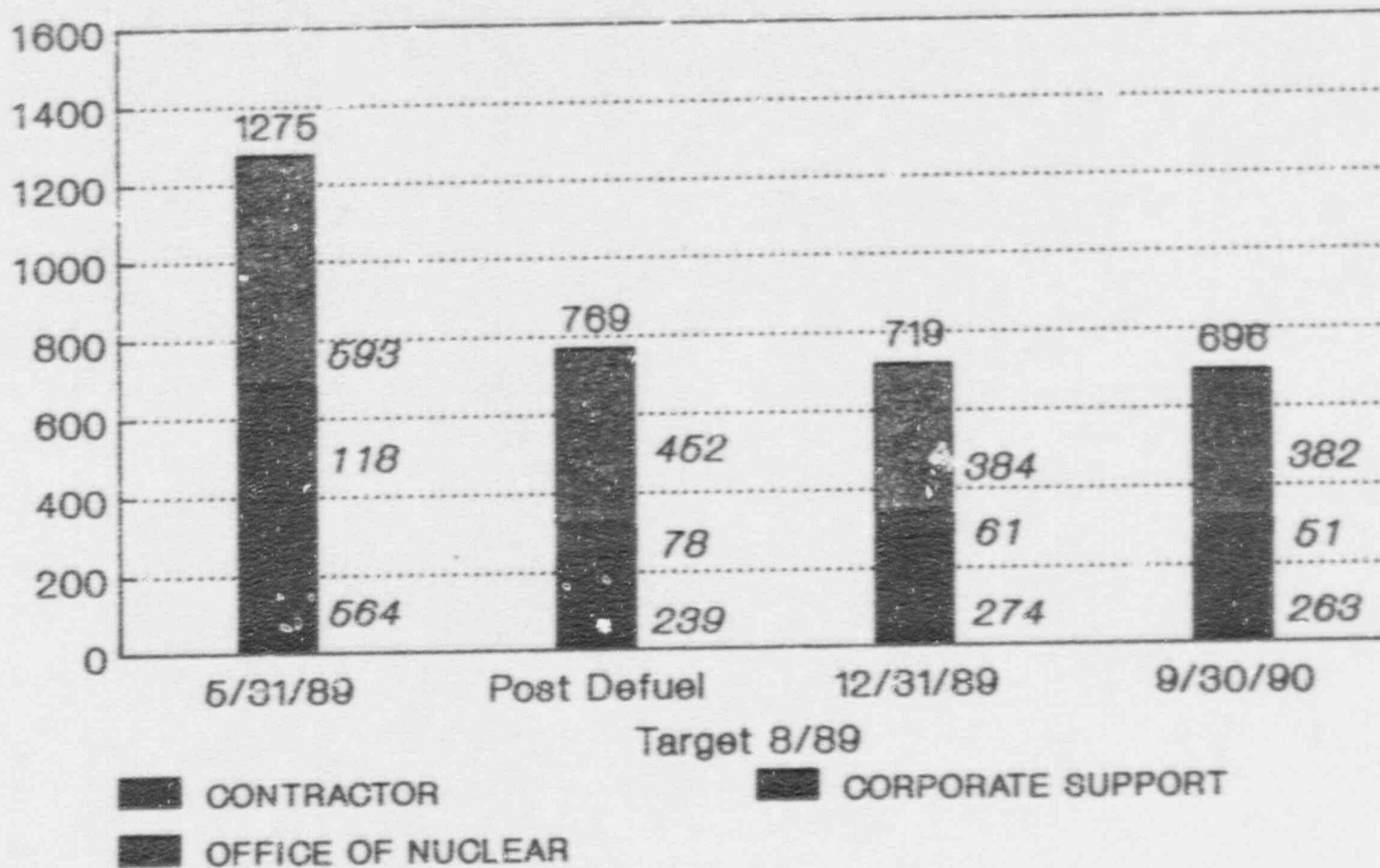
- STAFFING ASSESSMENT 8/89
- DEFUELING 8/89
- SYSTEM LAYUP PROGRAM 12/89-3/90
- RADIOLOGICAL SAFETY ANALYSIS FOR SPENT FUEL STORAGE & HANDLING 12/89
- DEFUELED SAFETY ANALYSIS REPORT 1/90
- SITE CHARACTERIZATION STUDY 2/90-5/90
- REMOVAL & SHIPMENT OF RADIOACTIVE MATERIAL COMPONENTS 4/90
- FUEL INSPECTION 8/90
- DECOMMISSIONING INFORMATION (LILCO) 9/90
- DECONTAMINATION PROGRAM 12/90

OFFICE OF NUCLEAR LILCO PERSONNEL



■ Total Auth Pers ■ Post Defuel Staff
■ Pers as of 12/31/89 ■ Pers as of 9/30/90

TOTAL PERSONNEL LILCO & CONTRACTORS



P8010906

OFFICE OF NUCLEAR MAJOR LICENSING SUBMITTALS

I APPROVED

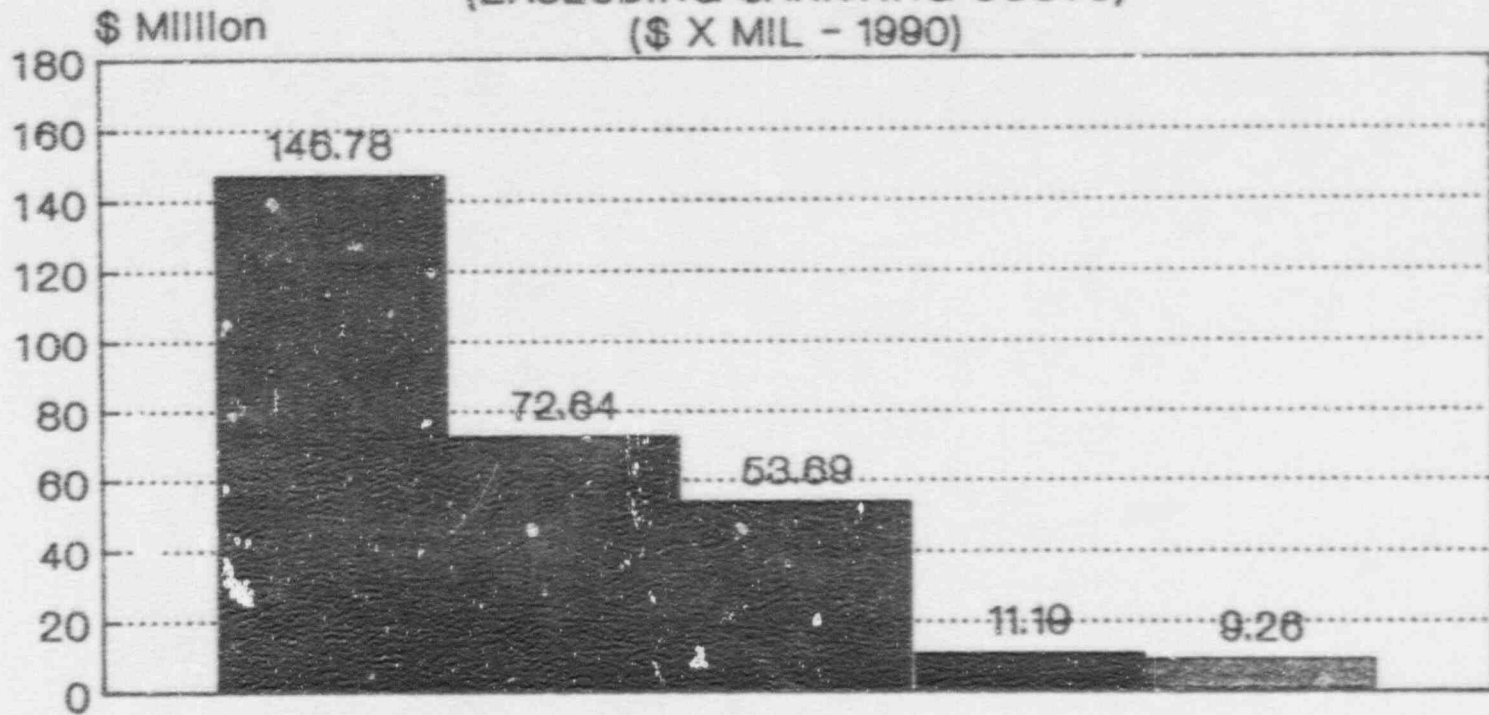
- INSURANCE EXEMPTION 4/30/90
- APPENDIX 'J' TESTING 6/25/90
- SECURITY PLAN REVISION 6/14/90
- REVISED LERO PLAN 7/31/90
- FITNESS FOR DUTY EXEMPTION 8/21/90

II PENDING

- REMOVAL OF OPERATING AUTHORITY (POL)
(INCLUDING TECHNICAL SPECIFICATIONS)
- TDI 5 YEAR OVERHAUL
- FIRE PROTECTION PROGRAM CHANGES
- SECURITY PLAN REVISIONS
- DECOMMISSIONING FUNDING EXEMPTION
- ANNUAL USERS FEE
- OPERATORS REQUALIFICATION CHANGES
- DELETION OF ISEG
- LICENSE TRANSFER REQUEST

1990 BUDGET PROJECTED YEAR END

(EXCLUDING CARRYING COSTS)
(\$ X MIL - 1990)



■ TOTAL BUDGET

■ TAXES

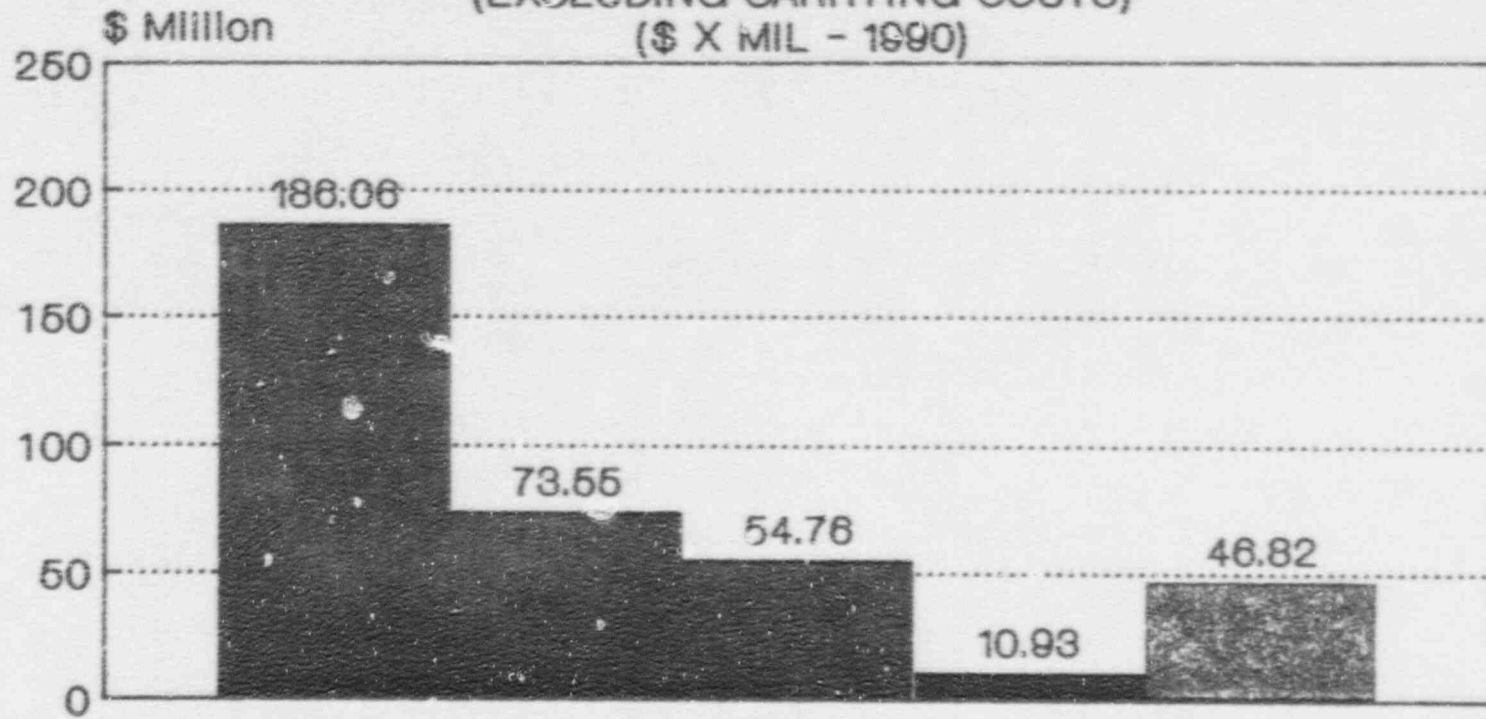
■ OFFICE OF NUCLEAR

■ CORP. SUPP.

■ OTHER

1991 BUDGET ESTIMATED

(EXCLUDING CARRYING COSTS)
(\$ X MIL - 1990)



TOTAL BUDGET

TAXES

OFFICE OF NUCLEAR

CORP. SUPP.

OTHER

SHOREHAM
NUCLEAR POWER
STATION

NRC COMMISSIONER CURTISS SITE VISIT

NOVEMBER 13, 1990

PLANT MANAGER'S PRESENTATION OVERVIEW

- CURRENT PLANT STATUS
- PLANT LAYUP PROGRAM
- PLANT RADIOLOGICAL CHARACTERIZATION PROGRAM
- PLANT DECONTAMINATION PROGRAM
- LIPA/NYPA LILOO INTERFACE
- SIJMMARY

CURRENT PLANT STATUS

- 560 FUEL BUNDLES IN THE SPENT FUEL POOL
- 300 WATTS DECAY HEAT
- INCORE INSTRUMENTATION REMOVED/PACKAGED
- NEUTRON SOURCES REMOVED/SHIPPED TO BNL
- CONTROL ROD BLADES STORED IN SPENT FUEL POOL
- FUEL SUPPORT PIECES REMOVED/PACKAGED
- FOUR FUEL BUNDLES INSPECTED
- SEPARATOR, DRYER, REACTOR HEAD INSTALLED
- VESSEL DRAINED/DRY AIR PURGE

PLANT LAYUP

HISTORY

- LILOO - N.Y. STATE AGREEMENT
- - LILOO - COMMITMENT TO NRC
- FUEL IN THE POOL SCENARIO
- LAY-UP SCHEDULE

FUEL IN THE POOL SCENARIO (FIPS)

- REVIEW 126 SYSTEMS
- DEFINE SYSTEM CATEGORIES:
 - OPERABLE SYSTEMS MAINTAINED TO MEET TECHNICAL SPECIFICATION REQUIREMENTS
 - FUNCTIONAL BASICALLY SUPPORT SYSTEMS NOT REQUIRED PER TECHNICAL SPECIFICATIONS BUT NECESSARY FOR MINIMAL PLANT FUNCTIONS, HABITABILITY, AND PRESERVATION CONCERNS
 - PROTECTED SYSTEMS NOT TO BE OPERATED AND WILL BE LEFT IN A PRESERVED, DE-ENERGIZED, AND SAFE STATE

POST SETTLEMENT SYSTEM LAYUP IMPLEMENTATION PROGRAM

- COMPLETION DATE -
SCHEDULED: MAY 11, 1990
ACTUAL: MARCH 30, 1990
- TYPES OF SYSTEM LAYUP
 - WET SYSTEMS: DRAINED AND DRIED TO 35% RELATIVE HUMIDITY
 - STEAM SYSTEMS: DRAINED AND VENTED, PURGED
 - ELECTRICAL EQUIPMENT: DE-ENERGIZED
 - CONTAINMENT: DRAINED, LOOSE DIRT/SLUDGE REMOVED
- LONG TERM MONITORING PROGRAM
 - SCHEDULED MONITORING
 - CONTINUOUSLY PURGED SYSTEMS
 - DEHUMIDIFIED AREAS
 - TURBINE
 - MSR
 - CONDENSER
 - SUPPRESSION POOL
 - VESSEL
 - UNIQUE LAYUP METHODS
 - AIR VOIDING
 - CORROSION RESISTANT OILS
 - SELF CONTAINED DEHUMIDIFIER

OPERABLE - (39 Systems)

B21 Nuclear Boiler
C71 Reactor Protections
D11 Process Radiation Monitoring
D21 Area Radiation Monitoring
F12 Servicing Aids (Fuel)
F15 Refueling
G11 Radwaste
M43 Fire Protection
M50 RBSVS & Cont. Room Chilled Water
P41 Service Water
P64 Meteorological Monitoring
R11 Station Transformer (NSS & RSS)
R21 Non-Segregated Buses
R22 Metal Cist Switchgear
R23 Load Centers and Unit Substations
R35 AC Instrument Power
R36 AC Uninterruptible (Vital) Power
R42 Battery Power (125VDC)
R43 Diesel Emergency Power
R62 Station Protection and Metering
R71 Fire Detect & Station Security
R81 Heat Tracing
S23 138/69kv Switchyard Pot. Transf.
S24 138kv Switchyard Relay Panels
T21 Reactor Building
T22 Reactor Building Superstructure
T23 Reactor Primary Containment
T31 (RB) Cranes, Hoists and Elevators
T41 Reactor Building Ventilation
T46 Reactor Building Standby Vent
U41 Turbine Building Ventilation
V41 Radwaste Building Ventilation
W12 Screenwell Canal
X41 Misc HVAC
X60 Diesel Generator Ventilation
X61 Control Room Air Conditioning
Y25 Barge Dock and Waterfront
Z94 Seismic Monitoring
Z96 Post Accident Sampling

FUNCTIONAL - (41 Systems)

G41 Fuel Pool Cool & Cleanup
M41 Heating & Aux Boiler
M42 Domestic Water
M44 Sanitary Sewage
M61 Building Service Misc.
N34 Lubricating Oil
N39 Turning Gear
N42 Hydrogen Seal
N45 Gen Hydrogen & CO2 Purge
N52 Condensate Demineralizer
N71 Circulating Water
O61 Plant Security
P11 Condensate Transfer & Storage
P21 Demin & Makeup Water
P33 Sample System
P43 TBLOW
P50 Compressed Air
P71 Low Conduct & SW Drain
R24 Motor Control Centers
R34 Auxiliary Grounding
R41 DC Instrument Power (48VDC)
R51 Communication (Intra Plant)
R52 Comm-Telephone (Leased Line)
R53 Comm-Sound (Powered Telephone)
R54 Comm-Radio
R55 Closed Circuit TV
R61 Unit Protection & Metering
S21 Plant Substation
S25 69kv Switchyard/Gas Turbine
T51 Reactor Building Lighting
U31 (TB) Cranes, Hoists, Elevators
U51 Turbine Building Lighting
V31 RW Cranes, Hoists, and Elevators
V51 Radwaste Building Lighting
W23 Chlorination
X37 Security Building
X48 Office Building HVAC
X50 Office Building Annex
X70 Secondary Access Facility
Y48 Cathodic Protection
Y51 Yard Lighting

PROTECTED - (46 Systems)

B11 Reactor Assembly
B31 Reactor Water Recirc
C11 CRD Hydraulic Control
C32 Feedwater Control
C41 Standby Liquid Control
C51 Neutron Instrumentation
C61 Reactor Remote Shutdown
C91 Process Computer
E11 Residual Heat Removal
E21 Core Spray
E32 MSIV Leakage Control
E41 High Pressure Coolant Injection
G33 Reactor Water Cleanup
E51 Reactor Core Isolation Cooling
M60 Main Chilled Water
N11 Main Steam
N21 Condensate and Feedwater
N22 Heater Relief and Vent Lines
N23 Misc Drains Secondary Plant
N24 Sealing Water
N25 Feedpump TSI
N31 Turbine
N32 Turbine Control
N33 Seal and Radwaste Steam
N35 Moisture Separator Rehr & Drains
N36 Extraction Steam
N37 Main Turbine Bypass Instrument
N41 Generator
N43 Generator Stator Cooling
N44 Vacuum Priming & Air Removal
N61 Excitation
N62 Radwaste Offgas
P42 RBOLCW
P63 Radwaste Solids Handling
P65 Vibration Monitoring
R13 Isolated Phase Bus
S11 Main Power Transformer
S22 138kv Transfer Breaker
T24 Primary Containment Inerting
T47 Primary Containment Cooling
T48 Primary Containment Atmospheric Control
T49 Primary Containment Inter Leak Test
N62 Control Room Self Cont Air Supply
Z92 Excess Flow Check Valves
Z93 Post Accident Monitoring

PLANT RADIOLOGICAL CHARACTERIZATION PROGRAM

- FOUR AREAS CHARACTERIZED

- SYSTEMS AND EQUIPMENT
- REACTOR VESSEL AND SHIELD WALL
- STRUCTURES
- SOIL

- PURPOSE

- CLASSIFIED INTO THREE CATEGORIES
 - NON DETECTABLE
 - DETECTABLE
 - CONTAMINATED
- ESTABLISHED SOLID BASE
 - POSSIBILITY FOR DECONTAMINATION
 - EXTENT OF DECOMMISSIONING
- NOT A TERMINATION SURVEY

PLANT RADIOLOGICAL CHARACTERIZATION PROGRAM

- RESULTS

- SYSTEMS AND EQUIPMENT 44/125

RECIRCULATION	CONDENSATE DEMIN
CONTROL ROD DRIVE	FUEL POOL CLEANUP
RESIDUAL HEAT REMOVAL	LIQUID RADWASTE
CORE SPRAY	SAMPLING
REACTOR WATER CLEANUP	

- REACTOR VESSEL AND SHIELD WALL

SHIELD WALL MINIMAL ACTIVATION (2 YEARS)

REACTOR VESSEL ACTIVATION - 602 CURIES

334 CURIES - TOP GUIDE PLATE

170 CURIES - CORE SHROUD

76 CURIES - SRM/IRM GUIDE TUBES

22 CURIES - VESSEL STEEL

REACTOR VESSEL CONTAMINATION

PRESSURE VESSEL

VESSEL INTERNALS

STEAM SEPARATOR

PLANT RADIOLOGICAL CHARACTERIZATION PROGRAM

- RESULTS

- **STRUCTURES - CONTAMINATED**

DRYER/SEPARATOR
REACTOR CAVITY/DRYWALL
RADWASTE TRASH LAYDOWN AREA
FUEL POOL
NINE REACTOR BUILDING FLOOR DRAINS
SIX RX BLDG./R.W. BLDG DRAIN SUMPS

- **SOILS**

ONE SAMPLE ABOVE BACKGROUND

- **OVERALL CONTAMINATION RESULTS**

55 MILLICURIES CONTAMINATION

52 MCI - RPV AND INTERNALS
3 MCI - ALL SYSTEMS
.2 MCI - ALL STRUCTURES

97% CO-60; 3% MN-54

DECONTAMINATION PROGRAM

- TARGET: • ONE PLANT SYSTEMS
• SEVERAL PLANT AREAS (STRUCTURES)
- PROCESS: • HYDROLAZING 10,000 PSI WATER JET
• MANUAL SCRUBBING
• REGENETIVE DILUTE ACID
- OBJECTIVE: • REMOVE ACTIVATED CRUD AND CORROSION
• AVOID REMOVAL OF BASE METAL IN PIPING
• AVOID PRODUCTION OF MIXED WASTE
- GOAL: • MINIMIZE WASTE VOLUME TO BURIAL SITE
• MINIMIZE TRANSPORTATION TO BURIAL SITE
• OVERALL REDUCTION IN COST FOR DECOMMISSIONING
- SUCCESS CRITERIA: • UNRESTRICTED RELEASE (RADIOLOGICALLY)
- PROGRAM PARTICIPANTS: • OVERVIEW BY SENIOR MANAGEMENT AND NRB
• PROGRAM MANAGEMENT TASK-FORCE (PLANT STAFF, NED, NQA)
• IMPLEMENTATION BY PLANT STAFF
- PHYSICAL WORK AND SUPERVISION
- VENDOR CHEMICAL PROCESS

LIPA/NYPA/LILCO INTERACTION

- JOINT SUBMITTALS
 - DECOMMISSIONING REPORT
 - LICENSE TRANSFER APPLICATION

- COORDINATION MEETINGS
 - WEEKLY STAFF/FUNCTIONAL AREAS INTERFACE
 - BIWEEKLY LICENSE TRANSFER SCHEDULE UPDATE
 - EXECUTIVE MANAGEMENT/SENIOR MANAGEMENT STATUS

- MAJOR ACTIVITIES
 - PROCEDURE REVIEWS
 - PROGRAM REVIEWS
 - NYPA MANAGEMENT/LILCO STAFF FAMILIARIZATION

NQA

OVERVIEW

ASSURANCE OF QUALITY

NUCLEAR QUALITY ASSURANCE PROGRAM
UNCHANGED TO DATE

NUCLEAR PROGRAMS ARE ADEQUATE

STAFF IS QUALIFIED AND ADEQUATE

DEFICIENCY REPORT TRENDING

PROGRAM IMPLEMENTATION

- OFFICE OF NUCLEAR PROGRAMS ARE ADEQUATE
 - VERIFIED BY AUDITS (16 ANNUALLY)
 - ASSESSED BY TREND REPORTING

- SAFETY EVALUATIONS FOR PROGRAM CHANGES
 - SAFETY EVALUATIONS REVIEWED BY:
 - REVIEW OF OPERATIONS COMMITTEE
 - NUCLEAR REVIEW BOARD
 - INDEPENDENT SAFETY ENGINEERING GROUP

- NUCLEAR QUALITY ASSURANCE PROGRAM
 - VERIFIED ADEQUATE DURING ANNUAL INDEPENDENT ASSESSMENT

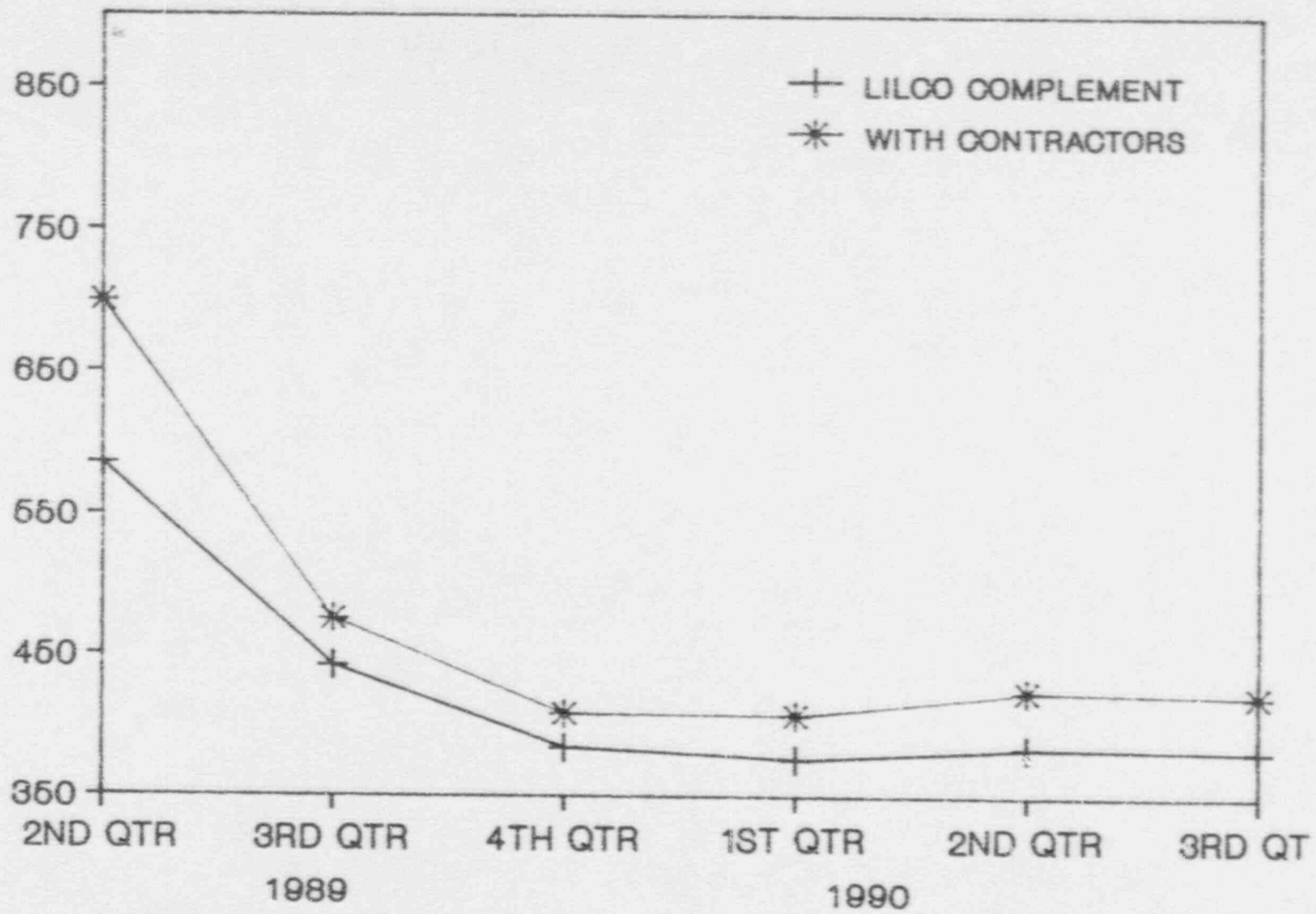
STAFFING ADEQUACY

- STAFF IS TRAINED AND QUALIFIED
 - VERIFIED DURING EACH PROGRAM AUDIT
 - VERIFIED FOR SAFETY RELATED MAINTENANCE ACTIVITIES

- STAFF LEVELS ARE ADEQUATE
 - EVALUATED DURING PROGRAM AUDITS
 - REVIEWED BY NRC INSPECTION

- STAFF LEVEL TRENDING
 - AUTHORIZED COMPLEMENT REDUCED THROUGH PROGRAM REDUCTION
 - LILCO COMPLEMENT STABLE
 - STAFF AUGMENTED BY CONTRACTORS

OFFICE OF NUCLEAR STAFFING



SHOREHAM

SPENT FUEL DISPOSAL

SHOREHAM FUEL CHARACTERISTICS

DESIGN

CONFIGURATION	GE 'O' LATTICE
PELLET DESIGN	NON-BARRIER
ENRICHMENT DISTRIBUTION	76 BUNDLES 0.71 WT % 144 BUNDLES 1.76 WT % 340 BUNDLES 2.19 WT %
CHANNEL THICKNESS	100 MILS
DESIGN BURNUP CORE	712 EFFECTIVE FULL POWER DAYS

CURRENT STATUS

DECAY HEAT OUTPUT	300 WATTS
MAXIMUM BUNDLE ACTIVITY	100 R AT CONTACT 7 R AT 3 FEET
CURIES	118,000
BURNUP	2 EFFECTIVE FULL POWER DAYS

SHOREHAM FUEL DISPOSAL
OPTIONS

- TRANSFER FUEL TO NINE MILE
POINT UNIT 2
- REPROCESS FUEL
- ON-SITE DRY STORAGE

NINE MILE POINT UNIT 2 OPTION

■ BACKGROUND

- LILCO PROPOSAL TO COTENANTS APRIL 1990
- LILCO WOULD FUND ALL COSTS FOR TRANSFER OF FUEL TO NINE MILE SITE
- LILCO WOULD SHARE IN FUEL COST SAVINGS

■ PROGRESS

- SNPS FUEL INSPECTION COMPLETED-AUGUST 1990
- S. LEVY TECHNICAL REPORT COMPLETED OCTOBER 1990
 - * FEASIBLE TO PACKAGE AND SHIP FUEL
 - * RISK OF FUEL FAILURE LOW
- NIAGARA MOHAWK - NET COST SAVINGS FOR TRANSFER
- SCHEDULE - 18-24 MONTHS

■ CURRENT ACTIVITIES

- INSTRUMENTATION OF IF-300 CASK
- COTENANTS MANAGEMENT MEETING NOVEMBER 14

REPROCESSING OPTION

- BACKGROUND

- REPROCESS FUEL, SELL RECOVERED PRODUCT, KEEP WASTE
- NYPA REQUESTED PROPOSALS FROM BNFL AND COGEMA

- PROGRESS

- TECHNICAL EVALUATION COMPLETE
- FEASIBLE TO LICENSE AND TRANSPORT FUEL
- OVERALL SCHEDULE - 24 - 29 MONTHS
- APPROVAL REQUIRED FROM FRENCH COMPETENT AUTHORITY (FCA), STATE DEPARTMENT, DOT AND NRC PROJECTED TO TAKE 6 MONTHS

- CURRENT ACTIVITIES

- NYPA CONTINUES DISCUSSIONS WITH COGEMA
- AUTHORIZATION TO PREPARE LICENSE APPLICATION FOR CASK

SHOREHAM SITE DRY STORAGE OPTION

- BACKGROUND
 - STORE ON SHOREHAM SITE UNTIL DOE ACCEPTS FUEL FOR HIGH LEVEL WASTE REPOSITORY
 - NO RETURN TO STORAGE POOL
 - LILCO REQUESTED BIDS FROM 6 VENDORS

- SUMMARY OF PROPOSALS
 - 4 PROPOSALS RECEIVED
 - SCHEDULES 15 - 29 MONTHS
 - EVALUATION OF PROPOSALS COMPLETE-OCT. 1990
 - LOW BIDDER - PACIFIC NUCLEAR FUEL SYSTEMS (PNFS)

- CURRENT ACTIVITIES
 - PREPARE GENERIC BWR LICENSE APPLICATION PACIFIC NUCLEAR FUEL SYSTEMS (PNFS)

SHOREHAM FUEL DISPOSAL OPTIONS

SUMMARY

- THREE OPTIONS APPEAR FEASIBLE AND HAVE HIGH DEGREE OF SUCCESS
- NINE MILE POINT UNIT 2 TRANSFER IS PREFERRED OPTION
- ALL THREE OPTIONS UNCERTAINTIES
- CONTINUE TO PURSUE MULTIPLE OPTIONS

LIPA DECOMMISSIONING PLAN

- LIPA AND NYPA ARE WORKING WITH BECHTEL AND TLG ENGINEERING TO DEVELOP A PROPOSED DECOMMISSIONING PLAN.
- THE PLAN WILL BE SUBMITTED TO THE NRC BY THE YEAR'S END.
- THE DECON ALTERNATIVE APPEARS TO BE THE MOST APPROPRIATE METHOD FOR DECOMMISSIONING THE SHOREHAM PLANT.
- MINIMAL DISMANTLEMENT OF SHOREHAM IS REQUIRED BASED ON THE RESULTS OF A SITE CHARACTERIZATION STUDY.
- A COST ESTIMATE AND SCHEDULE WILL BE PROVIDED IN THE PLAN.
- THE VARIOUS OPTIONS FOR FUEL DISPOSITION WILL BE INTEGRATED INTO LIPA'S DECOMMISSIONING PLAN.
- SHOREHAM DECOMMISSIONING IS CONSIDERABLY LESS THAN THE DECOMMISSIONING OF REACTORS WITH SIGNIFICANT OPERATING EXPERIENCE.

ANTICIPATED SCHEDULE FOR DECOMMISSIONING

<u>MILESTONE/ACTIVITY</u>	<u>DATE</u>
• LIPA DECOMMISSIONING PLAN SUBMISSION TO THE NRC	DEC 1990
• NRC APPROVAL OF JOINT LIPA/LILCO LICENSE TRANSFER APPLICATION	JUN 1991
• LIPA SUBMISSION OF LICENSE TERMINATION APPLICATION TO THE NRC	AUG 1991
• NRC APPROVAL OF DECOMMISSIONING PLAN	OCT 1991
• SHOREHAM PLANT DECOMMISSIONING COMPLETE, NRC LICENSES TERMINATED	DEC 1993

LICENSING ACTIVITIES

LICENSING SUBMITTALS

I APPROVED

- INSURANCE EXEMPTION 4/30/90
- APPENDIX 'J' TESTING 6/25/90
- SECURITY PLAN REVISION 6/14/90
- REVISED LERO PLAN 7/31/90
- FITNESS FOR DUTY EXEMPTION 8/21/90

II PENDING

- REMOVAL OF OPERATING AUTHORITY (POL)
(INCLUDING TECHNICAL SPECIFICATIONS)
- TDI 5 YEAR OVERHAUL
- FIRE PROTECTION PROGRAM CHANGES
- SECURITY PLAN REVISIONS
- DECOMMISSIONING FUNDING EXEMPTION
- ANNUAL USERS FEE
- OPERATORS REQUALIFICATION CHANGES
- DELETION OF ISEG
- LICENSE TRANSFER REQUEST

Post Settlement NRC Amendments/Exemptions PENDING

Actions	Submittal Date	NRC Approval	Potential Saving/Yr
Removal of Oper. Auth. (POL)(Including TECH SPEC'S)	1-05-90	Pending	3.0M
TDI 5 Year Overhaul	3-16-90	Pending	0.3M
Continuous Fire Watch	8-03-90	Pending	1.0M
Fire Prot. Tech. Spec.	7-20-90	Pending	-
License Transfer Request	8-28-90	Pending	-
Deletion of ISEG	8-21-90	Pending	0.6M
Rev Operator Requal. Program	8-31-90	Pending	0.5M
Simulato: Exemp. amended	8-31-90	Pending	0.25M
Annual NHC Users Fee	9-07-90	Pending	1.3M
Security Plan Revisions	10-15-90	Pending	2.0M
Total Savings Pending			----- 9.05M

PROBLEMS

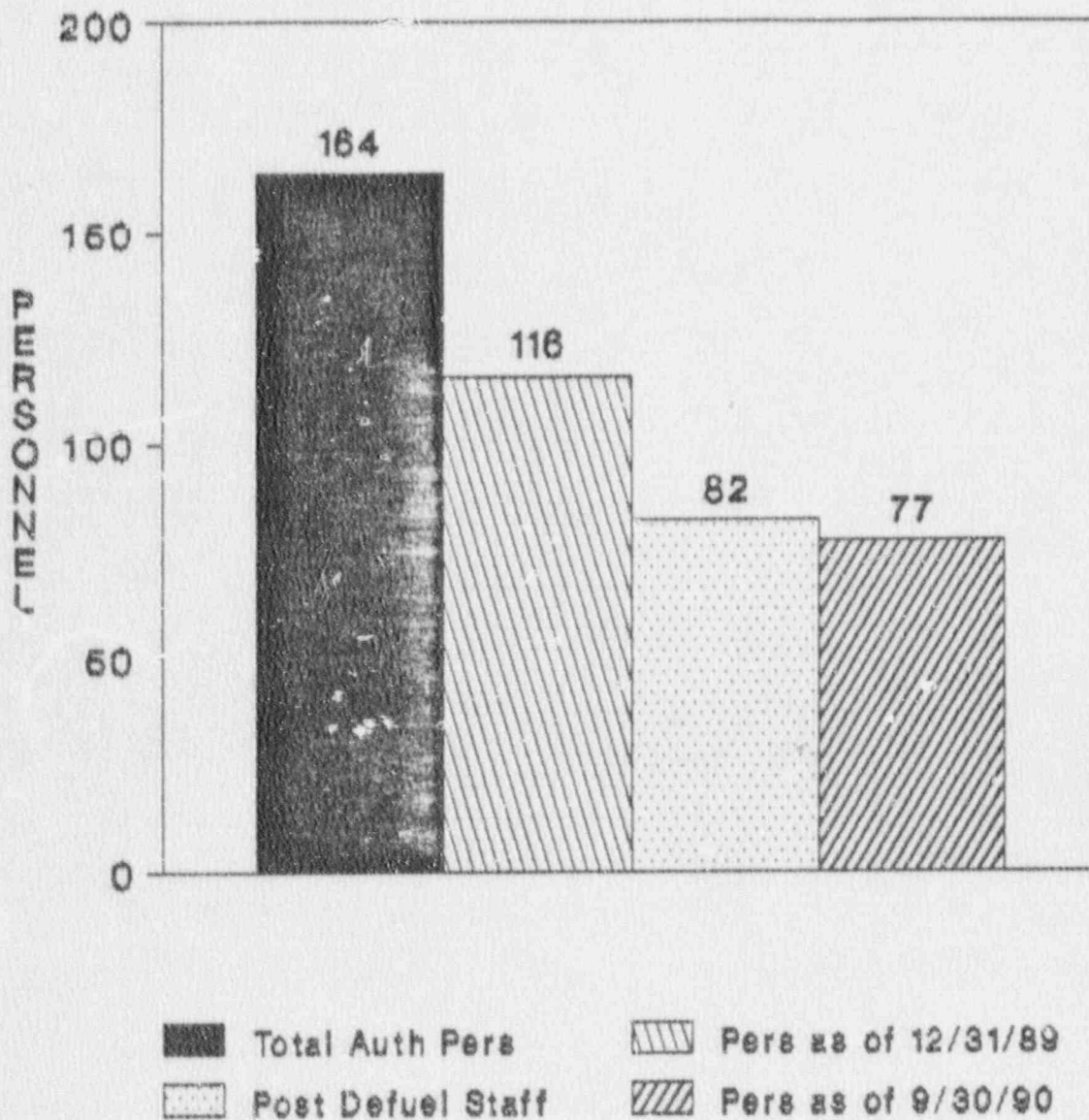
- LACK OF TIMELY APPROVAL OF LICENSING SUBMITTALS FOR AMENDMENTS AND EXEMPTIONS
- REVISED TECHNICAL SPECIFICATION
- NEED FOR ISSUANCE OF POSSESSION ONLY LICENSE
- CONTINUED HIGH COSTS OF MAINTAINING PLANT AND STAFF WITH OPERATING LICENSE
- LICENSE TRANSFER TO LIPA
- "CHASING MILLICOURIES WITH MEGA BUCKS"
 - MOST SIGNIFICANT DIFFERENCE BETWEEN THIS AND OTHER PLANTS IS THE AMOUNT OF CONTAMINATION AND ACTIVATION

Attachment 3
Handouts from the
NRB Meeting
Dec. 13, 1990

**NUCLEAR
OPERATIONS SUPPORT
DEPARTMENT**

NRB1C901

POST SETTLEMENT NOSD STAFFING



LICENSING

ACTIVITIES

FRSTPAGE

Post Settlement NRC Amendments/Exemptions PENDING

<u>Actions</u>	<u>Submittal Date</u>	<u>Potential Saving/Yr</u>
Removal of Oper. Auth. (POL)(Including TECr: SPEC'S)	1-05-90	3.0M
TDI 5 Year Overhaul	3-16-90	0.3M
Continuous Fire Watch	6-03-90	1.0M
Fire Prot. Tech. Spec.	7-20-90	-
License Transfer Request	6-28-90	-
Deletion of ISEG	8-21-90	0.6M
Rev Operator Requal. Program	8-31-90	0.5M
Simulator Exemp. amended	8-31-90	0.25M
Annual NRC Users Fee	9-07-90	1.3M
Security Plan Revisions	10-15-90	2.0M
125v D.C. Battery Seismic Exemption Request	Pending	0.3M
TOTAL SAVINGS PENDING		9.35M

LICENSING SUBMITTALS

I APPROVED

- INSURANCE EXEMPTION 4/30/90
- APPENDIX "J" TESTING 6/25/90
- SECURITY PLAN REVISION 6/14/90
- REVISED LERO PLAN 7/31/90
- FITNESS FOR DUTY EXEMPTION 8/21/90

II PENDING

- REMOVAL OF OPERATING AUTHORITY (POL)
- TUI 5 YEAR OVERHAUL
- FIRE PROTECTION PROGRAM CHANGES
- SECURITY PLAN REVISIONS
- DECOMMISSIONING FUNDING EXEMPTION
- ANNUAL USERS FEE
- OPERATORS REQUALIFICATION CHANGES
- DELETION OF ISEG
- LICENSE TRANSFER REQUEST

LITIGATION U.S. COURT OF APPEALS (D.C. CIRCUIT)

CASE I - DISMISSED

- Petition filed Oct. 13, 1987
- Requested Court review of NRC action on the two 2206 petitions
- Court dismissed Jan. 22, 1990 (As NRC action was not a final agency action)

CASE II - PENDING

- Petition filed May 7, 1990
- Requested Court review of NRC action on:
 - a) LERO request
 - b) Security request
 - c) Appendix J
 - d) Confirmatory order
 - e) Insurance
- Aug. 30, 1990 Order dismissed a,b & c above
- Thus only d & e are pending

EVENTS WHICH DELAYED POL & OTHER REQUESTS

- Sept. 18, 1990 DOE Letter
- Sept. 20, 1990 SWRSD/SE2 Hearing Request
- Oct. 09, 1990 CEQ Letter
- Oct. 17, 1990 Commissioner's Memorandum

- Resumed operation not an alternative to be considered in a NEPA required EIS

- NRC Staff must ensure LILCO
 - (a) Comply with OL & regulations applicable to defueled mode and
 - (b) Keep all decommissioning options open until Staff approval of a decommissioning plan

- Forwarded six petitions on three issues to a Licensing Board
 - (a) confirmatory order
 - (b) security amendment
 - (c) LERO exemption/amendment

- Oct. 18, 1990 ASLB Established
 - Morton B. Margulies, Chairman
 - George Ferguson
 - Jerry Kline

EVENTS WHICH DELAYED POL & OTHER REQUESTS

- Oct. 29,1990 SWRSD/SE2 Files a Joint Petition for Reconsideration of CLI 90-08 with the Comm.
- Nov. 01,1990 LILCO/FSC interpret CLI 90-0 to permit disposal of equip. needed for full pwr operation
- Nov. 08,1990 LILCO informs NRC Staff of o intention to ship the fuel assembly support castings to Barnwell, SC for burial
- Nov 09,1990 NRC Staff(EDO) request Comm. guidance with respect to the issue of disposal of such equip prior to issue of a POL
RESPONSE IS PENDING
- Nov. 14,1990 NRC Staff considers LILCO's Nov. 08 letter a request to amend our OL under "exigent circumstances"

EVENTS WHICH DELAYED POL & OTHER REQUESTS

- Nov. 16, 1990 NRC Staff meets with NUMARC and states that POLs will be issued after resolution of
 - (1) funding issues and
 - (2) programmatic issues (NRC)
- Nov. 28, 1990 SWRSD/SE2 and DOE oppose the issuance of the amendment

Amendment is pending/fuel support castings are still in the turbine building
- At Present POL License issue awaiting internal NRC approval of programs & procedures.

Individual amendments / exemptions will be issued prior to resolution of the POL issues

December 13, 1990

STATUS LIST OF
PENDING SHOREHAM REQUESTS

I. LILCO's Requests to the NRC
to Implement the Shoreham Settlement

<u>Description of Request</u>	<u>Purpose of Request</u>	<u>Date of Filing</u>	<u>Status</u>
1. <u>DSAR Submittal:</u>			
a) LILCO's Application for an Amendment to Facility Operating License NPF-82 (SNRC-1664).	To remove LILCO's authorization to operate Shoreham and to allow LILCO to implement a revised set of technical specifications for fuel handling operations and create a Possession Only License.	1/5/90	Pending
b) Revise Set of DSAR T.S. Based on 8/2/90 NRC Meeting (SNRC-1752).	To resolve NRC comments documented in NRC letter 6/27/90 and NRC Meeting on 8/2/90.	8/30/90	Pending
2. <u>TDI Emergency Diesel Generators:</u>			
a) LILCO's Request for Interim Relief from the One-Time Five Year Inspection Requirement of Paragraph A, Attachment 2 to NPF-82 and Technical Specification Surveillance Requirements 4.8.1.1.2.e2, 3, 4, 5, 6, 7, 8 and 10 pending Disposition of January 5, 1990 License Amendment Application (SNRC-1694).	To allow LILCO to defer performing the one-time five year 25% sample inspection of the emergency diesel generators and to suspend certain emergency diesel generator surveillances, with resulting costs savings.	3/16/90	Pending
b) Revision to Interim Relief Request (SNRC-1694) on TDI EDGs one-time 5 Year Inspection Requirement and Technical Specification Surveillance Requirements by deleting Tech Specification (SNRC-1766).	To allow LILCO to defer performing the one-time five year 25% sample inspection of the emergency diesel generators, with resulting cost savings.	10/23/90	Pending

December 13, 1990

STATUS LIST OF
PENDING SHOREHAM REQUESTS

I. LILCO's Requests to the NRC
to Implement the Shoreham Settlement

<u>Description of Request</u>	<u>Purpose of Request</u>	<u>Date of Filing</u>	<u>Status</u>
<u>3. Funding For Decommissioning</u>			
a) LILCO's Request for Exemption (V. Staffieri letter).	To allow LILCO to use the Site Corporation Agreement in lieu of filing a Funding Report necessary for decommissioning. The Funding Report required by 10 CFR 50.33(K)(2) and 50.75(b) would result in undue hardship and costs to LILCO and its ratepayers.	6/11/90	Pending
<u>4. Operators' Licenses Requirements</u>			
- LILCO's Request for an Exemption From the Operators Licenses Requirements of 10 CFR 55 (SNRC-1719).	To document the inability to comply with 10 CFR 55. Alleviate LILCO's additional costs associated with the completion of the certification of a plant referenced simulator.	6/5/90	Pending
- As Amended to Revise SNPS Operator Licenses Program (SNRC-1749).	1) Eliminate the use of the simulator in its entirety. 2) Forwarded LILCO's proposed revision to LILCO's NRC-approved operator requalification training program.	8/31/90	Pending
<u>5. License Transfer Request</u>			
LILCO's and LIPA's Joint Application for a License Amendment to Authorize the Transfer of Shoreham (SNRC-1734).	To amend Shoreham's license to designate LIPA as the Plant's licensee.	6/28/90	Pending

December 13, 1990

STATUS LIST OF
PENDING SHOREHAM REQUESTS

I. LILCO's Requests to the NRC
to Implement the Shoreham Settlement

<u>Description of Request</u>	<u>Purpose of Request</u>	<u>Date of Filing</u>	<u>Status</u>
<u>6. Annual License Fee</u> LILCO's request that the Annual License Fee for FY 1991 for SNPS be held in abeyance pending disposition of LILCO's 1/5/90 license amendment application (SNRC-1754).	Has the potential of saving LILCO \$719,000 annually until a POL is granted.	9/7/90	Pending NRC letter dtd 10/2/90 stated LILCO need not send money pending completion of NRC review.
<u>7. Security Plan</u> LILCO's request to revise Security Plan for Long Term Defueled Condition (SNRC-1762).	To redefine protected area, establish a "Security Area," relocate access control, reduce extent of Plan in 2 phases. To reduce costs.	10/9/90	Pending
<u>8. Deletion of ISEG</u> LILCO's request to amend NPF-82 by deleting ISEG and its associated admin. controls (SNRC-1745).	To provide a significant reduction in LILCO's costs (\$600,000 annually) associated with ISEG.	8/21/90	Pending

December 13, 1990

STATUS LIST OF
PENDING SHOREHAM REQUESTS

II. Other LILCO Request to the NRC
Not Related to the Shoreham Settlement

<u>Description of Request</u>	<u>Purpose of Request</u>	<u>Date of Filing</u>	<u>Status</u>
<u>1. Fire Protection</u>			
a) Removal of Fire Protection Program from Tech Specs. Revisions per Generic Letters 86-10 and 88-12 (SNRC-1737).	To conform with GL 86-10 and 88-12 to replace current license conditions with a new standard condition and remove unnecessary fire protection technical specifications.	7/20/90	Pending FR Notice & Proposed Finding of No Significant Hazards Consideration 9/5/90
b) Revised Attachment 2 (license conditions) based on 9/12 discussions w/S. Brown (NRC) (SNRC-1761).	To eliminate unnecessary reidentification/r numbering of license.	9/24/90	Pending
c) LILCO's Requests for Interim Relief from: a) establishing continuous fire watches per TS and b) establishing hourly fire watch patrol per TS (SNRC-1721).	A substantial reduction in costs associated with fire watches.	6/5/90	Pending

December 13, 1990

REQUESTS APPROVED BY NRC

<u>Description of Request</u>	<u>Purpose of Request</u>	<u>Date of Filing</u>	<u>Approval Date</u>
1) <u>Amendment of OL NPF-82 (Approval of Procedures)</u>			
LILCO's Request to Modify the Tech Specs to Remove an Inconsistency in the Plant Procedural Change Approval Process (SNRC-1612).	1) To be consistent with the remaining text of specification 6.8.2. 2) Relieve the Plant Manager of unnecessary administrative duties.	7/13/89	1/16/90
2) <u>Amendment of OL NPF-82 (Organization Chart)</u>			
LILCO's Request in Tech Spec 6.0, Delete Figure 6.2.1-1 <u>Corporate Nuclear Organization</u> .	To modify the Tech Specs to incorporate changes in accordance with Generic Letter 88-06.	6/13/88	2/1/90
LILCO's Request in Tech Spec 6.0, Delete Figure 6.2.2-1, <u>Unit Organization</u> . (SNRC-1465).	Also to modify Tech Spec to achieve consistency within licensing documents and to reflect realignment of corporate management responsibilities and reporting requirements.		
3) <u>Appendix J (Interim Relief)</u>			
LILCO's Request for an Exemption from the Primary Containment Leak Rate Testing Requirement of 10CFR50.54(o) & Appendix J (SNRC-1692).	To eliminate the need to establish and implement a periodic testing program.	3/13/90	3/16/90
4) <u>Amendment of OL NPF-82 (EDGs)</u>			
LILCO's Request to Modify OL NPF-36 Reduce Test Frequency of the EDGs in Accordance with Generic Letter 84-15 (SNRC-1481).	To improve diesel generator reliability by reducing the number of starts and loads on the EDGs. Change request was submitted in accordance with Generic Letter 84-15.	7/15/88	4/20/90

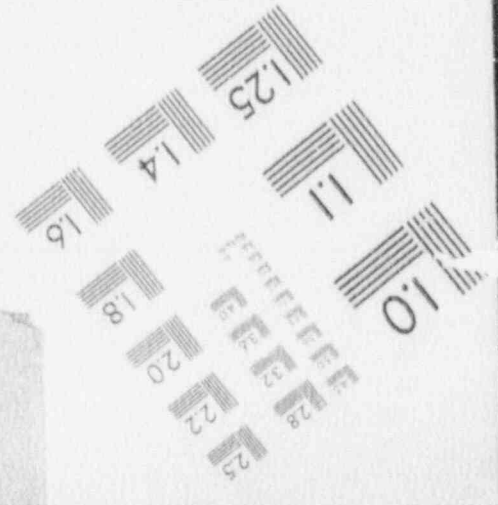
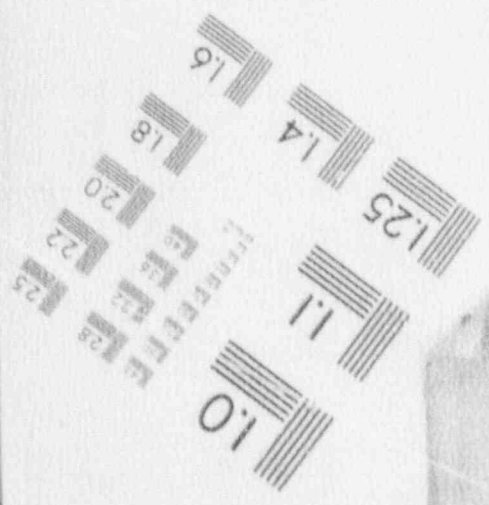
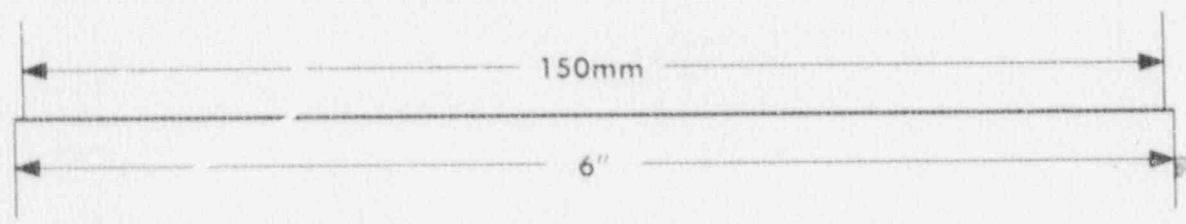
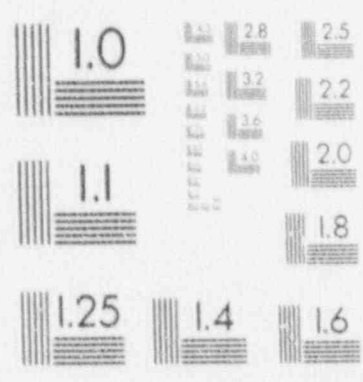
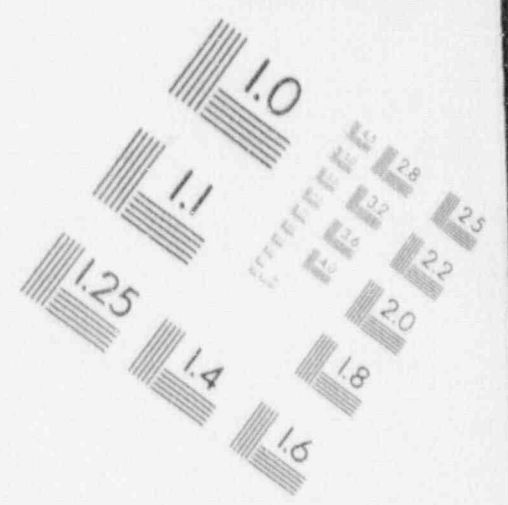
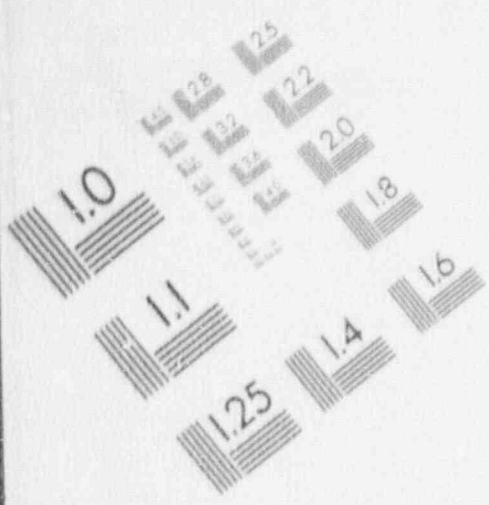
December 13, 1990

REQUESTS APPROVED BY NRC

<u>Description of Request</u>	<u>Purpose of Request</u>	<u>Date of Filing</u>	<u>Approval Date</u>
10) <u>Radiological Effluents</u> LILCO's Application for an Amendment to Facility Operating License NPF-82 (SNRC-1666).	To amend Shoreham's Radiological Effluents Technical Specifications to conform to guidance in Generic Letter 89-01.	2/20/90	6/25/90
11. <u>LERO Submittal:</u>			
a) LILCO's Request for an Exemption from the Emergency Preparedness Requirements of 10 CFR 50.54(q) (SNRC-1651).	To allow LILCO to cease offsite emergency preparedness, disband LERO, and implement the Defuel-Emergency Preparedness Plan	12/15/89	7/31/90
b) LILCO's Application for an Amendment to Facility Operating License NPF-82 (SNRC-1651).	To suspend the effect of offsite emergency preparedness license conditions while the plant is in a defueled condition.	12/15/89	7/31/90
c) LILCO's Request for Interim Relief from the Requirement to Conduct a FEMA Graded Exercise and Request for Deferral of the NRC-Graded Onsite Exercise Pending Disposition of its Request for an Exemption from the Emergency Preparedness Requirement of 10 CFR 50.54(q) (SNRC-1699).	To eliminate the need for LILCO to conduct a FEMA-graded offsite exercise by the end of 1990 and to defer conduct of an onsite exercise pending NRC approval of LILCO's emergency preparedness exemption request.	3/28/90	7/31/90

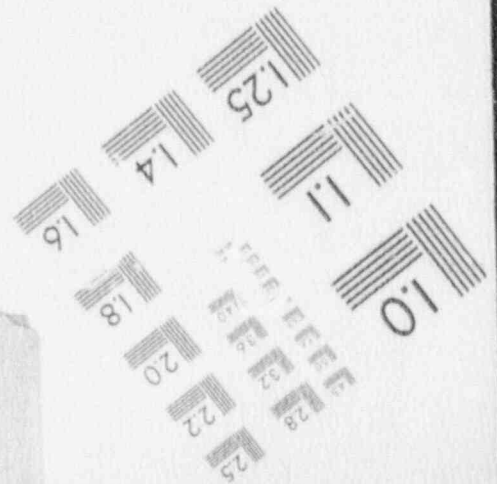
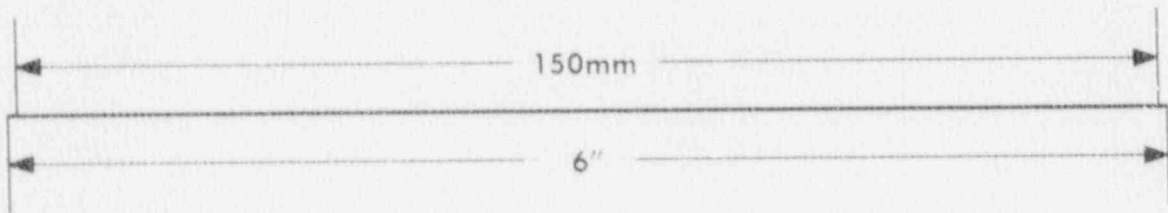
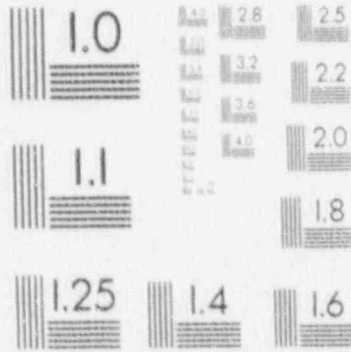
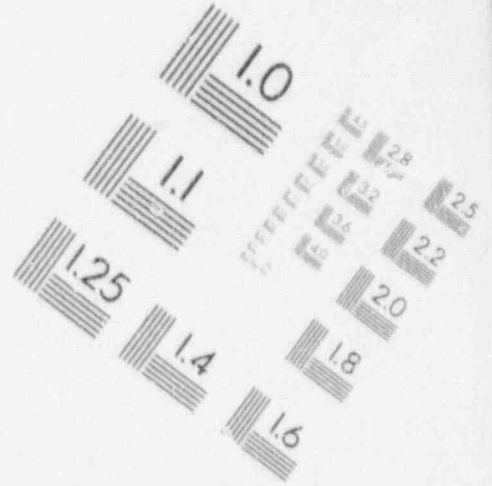
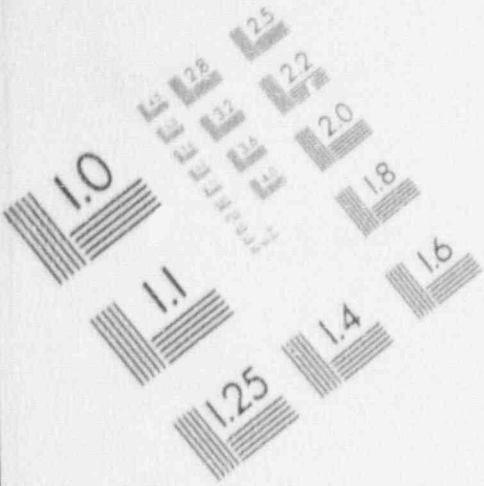
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IMAGE EVALUATION TEST TARGET (MT-3)



1

IMAGE EVALUATION TEST TARGET (MT-3)



December 13, 1990

REQUESTS APPROVED BY NRC

<u>Description of Request</u>	<u>Purpose of Request</u>	<u>Date of Filing</u>	<u>Approval Date</u>
12. <u>Plant Service Water System-Shutdown</u> <u>LOO 3.7.1.2.b.3</u> LILCO's Request for Interim Relief From Tech Specs Limiting Condition For Operation 3.7.1.2.b.3 (SNRC-1746) (subsequently, SNRC-1750 dated 8/15/90 showed time frame).	To allow LILCO to perform radiation survey and physical inspection of the spent fuel without the need of placing a portion of the RHR System back into its prior condition.	8/10/90	8/16/90
13. <u>Fitness-for-Duty:</u> a) LILCO's Request for a Limited Scope Exemption from the Fitness-for-Duty Requirements of 10 CFR Part 26 (SNRC-1689).	To allow LILCO to limit the scope of the Shoreham Fitness-for-Duty Program to only those personnel with unescorted access to "vital areas," with resulting costs savings and greater administrative convenience.	3/15/90	8/21/90
b) LILCO's Request for Interim Relief Pending Disposition of Exemption (SNRC-1689)	To allow LILCO to limit the scope of the Shoreham Fitness-for-Duty Program pending of LILCO's exemption request.	3/15/90	8/21/90 (approval for full exemption as in item a.)



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

November 29, 1990

G-90285
Recd. 12-04-90

Docket No. 50-267

Mr. A. Clegg Crawford
Vice President, Nuclear Operations
Public Service Company of Colorado
Post Office Box 840
Denver, Colorado 80201-0840

cc: JDL
RMK
WMM
LJC
RG
LFB
PGP

For your information

- 1. J. H. ...
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- 50. J. H. ...

Dear Mr. Crawford:

SUBJECT: COMPONENT REMOVAL ACTIVITIES

By letter dated November 5, 1990 as revised November 7, 1990, you informed the Nuclear Regulatory Commission (NRC) of certain activities that Public Service Company of Colorado (PSC) would accomplish within existing licensee authority under 10 CFR 50.59 requirements. You advised the NRC that, in addition to component removal activities accepted by the NRC in its June 21, 1990 letter, PSC would dispose of the "B" helium circulator and remove the "A" helium circulator from the PCRV. You also stated that after December 7, 1990, PSC intends to continue with plant closure as it deems appropriate under 10 CFR 50.59 requirements.

The removal of the "A" and "B" circulators was proposed in your letter of May 22, 1990 (item 6). In the staff's response, dated June 21, 1990, we urged that this action be delayed until a possession-only license was issued but offered to reconsider our view in light of any additional information you might wish to provide. With respect to the circulators, such information was presented in your letters of November 5 and 7, 1990. Based on the additional information, we have determined that since you have a spare circulator on site, you may proceed with disposal of the "B" circulator and that you may remove the "A" circulator for on-site retention. Those actions do not constitute irreversible actions with respect to a potential return to power. Other component removal activities should not be accomplished until after the possession-only license is issued unless the proposed action does not constitute an irreversible action with respect to a return to power operations.

Sincerely,
Seymour H. Weiss

Seymour H. Weiss, Director
Non-Power Reactors, Decommissioning and
Environmental Projects Directorate
Division of Advanced Reactors
and Special Projects
Office of Nuclear Reactor Regulation

cc: See next page

SHOREHAM NUCLEAR POWER STATION

NUCLEAR REVIEW BOARD
MANAGEMENT PRESENTATION
DECEMBER 13, 1990

LJ01

PLANT ACTIVITY OVERVIEW

- MAJOR PLANT ACTIVITIES COMPLETED SINCE OCTOBER
- MAJOR PLANT ACTIVITIES IN PROGRESS
- MAJOR PLANNED ACTIVITIES
- DECONTAMINATION PROGRAM
- OTHER ACTIVITIES
- PLANT STAFF LEVEL CHANGES

MAJOR PLANT WORK COMPLETED SINCE OCTOBER

- REACTOR VESSEL DRY OUT
- RWCU SYSTEM LAYUP
- PLANT PROCESS COMPUTER LAYUP
- RBNVS MODIFICATION
- REACTOR CAVITY CLEANING
- CONDENSATE DEMINERALIZER SYSTEM - FUNCTIONAL
- CHARCOAL TESTING ON RBSVS
- REVISED FITNESS FOR DUTY PROGRAM
- ONE RADWASTE SHIPMENT TO BARNWELL
- EMERGENCY PLANNING ANNUAL EXERCISE
- DRYWELL HEAD INSTALLED
- TWO OF SIX CAVITY BLOCKS INSTALLED

MAJOR PLANT ACTIVITIES IN PROGRESS

- RBSW STRAINER REPAIR - B AND C
 - SEISMIC ANALYSIS
 - OPERABILITY/FUNCTIONAL
- LICENSE OPERATOR REQUALIFICATION EXAMS
- RWCU CHARACTERIZATION
- EQUIPMENT LAYUP VERIFICATION
- RADWASTE SHIPMENTS
 - FUEL SUPPORT PIECES - NOT SHIPPED
 - SRM/IRM DETECTORS
- STRUCTURAL DECONTAMINATION
 - REACTOR CAVITY
 - DRYER/SEPARATOR PIT
 - SUPPRESSION POOL
 - TOTAL ORGANIC CARBONS
- SYSTEM DECONTAMINATION
 - REACTOR WATER CLEANUP

MAJOR PLANNED ACTIVITIES

- DECONTAMINATION PROGRAM
- EDG 101 - 5 YEAR/18 MONTH OVERHAUL
- RADIOACTIVE WASTE REMOVAL
 - CONTROL ROD BLADES
 - LPRMS
 - TIPS
 - FSP W/POL
- CONTROL ROD DRIVES - REMOVAL/
PRESERVATION
- BEACH REFURBISHING
- 30 DAY FUEL MOVEMENT READINESS

REACTOR WATER CLEANUP DECON PROGRAM

- DESCRIPTION
- CHARACTERIZATION
- HYDROLAZING
- PRESSURE TESTING
- CHEMICAL PROCESS VENDOR SELECTION
- PROCESS DEFINED VIA PROCEDURES
- IMPLEMENTATION
- ANALYSIS
 - RESULTS
 - ECONOMICS
- DECISION

OTHER ACTIVITIES

- FITNESS FOR DUTY REVISION
- FEASIBILITY STUDY ON TBCLOW
- MINIMIZING DRY ACTIVATED WASTE
- LILCO/NYPA INTERFACE
- LER STATUS: 9 YTD
0 OCTOBER
0 NOVEMBER

PLANT STAFF LEVELS

<u>MONTH</u>	<u>LILCO</u>	<u>CONSULTANT</u>	<u>TOTAL</u>
JUNE	240	22	262
JULY	240	22	262
AUG	237	19	256
SEPT	237	21	258
OCT	239	21	260
NOV	238	21	259

AUTHORIZED = 260

PLANT STAFF CHANGES

<u>MONTH</u>	<u>HIRED</u>	<u>TRANSFERRED</u>		<u>RESIGNED</u>	<u>NET CHANGE</u>
		<u>IN</u>	<u>OUT</u>		
JUNE	1	4	4	1	0
JULY	5	0	3	2	0
AUG	5	3	6	5	-3
SEPT	2	2	1	3	0
OCT	4	2	2	2	2
NOV	0	1	0	2	-1

(DOES NOT INCLUDE CONSULTANTS)

SMUD

1. Status of NRC Submittals

- a. FP - Approved
- b. Security - Pending
- c. EP - Pending
- d. Trg. - Pending
- e. Mod. TS - Pending (Defueled TS)
- f. Possession only license submittal - Pending

2. Plant Status

- a. Core off-loaded.
- b. Vessel flooded to head flange/head on (wet lay up).
- c. Loops filled to level of vessel flange, N₂ cover on remainder of RCS.
- d. 50 systems identified as "Important to Safety" and remain operational. Primarily related to SFP-Electrical, Mechanical and Radiological. Present TS applied only to these 50 systems.
- e. 150 systems in dry lay-up program, 30 left to do. No decontamination. Primary side systems drained. No purge.
- f. 9.527×10^6 total curries in plant. Determined by radiological characterization.
- g. Secondary plant in dry layup. Turbine rotated $\frac{1}{4}$ turn manually every two weeks. (Dry layup means continuous air purge, includes main steam (from S/G's) turbine, condenser, main feed.

3. Staffing

- a. 400 personnel on site. 100 of which are security personnel.

4. Present Activities

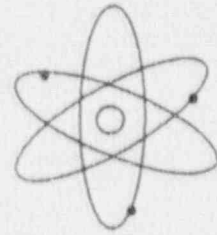
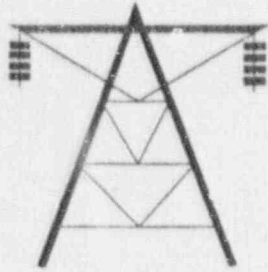
- a. No major activities. Maintaining status quo. Continuing to dry layup remaining 150 selected systems. Awaiting NRC action.
- b. All temporary structures (trailers) being auctioned off and sold. Most are gone.
- c. All construction activities stopped. Training facility at 90% complete and discontinued. Simulator sold to Crystal River at very low price.

5. Future: (When NRC approves defueled TS and other submittals)

- a. Reduce manpower to _200 people.
- b. Prepare decommissioning plan (Bachtel)
- c. Consider selling diesels (2-2500 kw GM's and 2-3500 kw TDI's).

6. Decommissioning Plan

- a. Present plan extends to 2050 due to lack of funds - need 1 billion dollars.
- b. NRC wants complete funding in 5 years.



Nuclear
Engineering
Department

OUTLINE

- NED OVERVIEW
- FUEL DISPOSITION STATUS
- NYPA DECOMMISSIONING PLAN

NUCLEAR ENGINEERING DEPARTMENT OVERVIEW

- STAFFING
 - DURING 1990 STAFF HAS BEEN VERY STABLE

- DEPARTMENT THEMES
 - MAXIMIZE REDUCTION IN REQUIRED ACTIVITIES
 - MINIMIZE COSTS
 - IMPROVE SERVICE TO ALL ORGANIZATIONS

- PRIORITIES
 - LICENSE REQUIREMENT REDUCTIONS
 - LICENSE TRANSFER
 - DECONTAMINATION PROGRAM
 - PLANT SUPPORT
 - CONFIGURATION CONTROL
 - FUEL DISPOSITION
 - SUPPORT NYPA IN FINALIZATION OF DECOMMISSIONING PLAN

- KEY ACTIVITY IN 1991
 - TRANSITION WITH NYPA
 - PROJECT PLANNING
 - PROCEDURES
 - STAFF TRANSFER

SHOREHAM FUEL DISPOSAL OPTIONS

- TRANSFER FUEL TO NINE MILE
POINT, UNIT 2
- REPROCESS FUEL
- ON-SITE STORAGE

NINE MILE POINT UNIT 2 OPTION

- BACKGROUND

- LILCO PROPOSAL TO COTENANTS - APRIL 1990
- LILCO WOULD FUND ALL COSTS FOR TRANSFER OF FUEL TO NINE MILE SITE
- LILCO WOULD SHARE IN FUEL COST SAVINGS

- PROGRESS

- SNPS FUEL INSPECTION COMPLETED - AUGUST 1990
- S. LEVY TECHNICAL REPORT COMPLETED OCTOBER 1990
 - FEASIBLE TO PACKAGE AND SHIP FUEL
 - RISK OF FUEL FAILURE LOW
- NIAGARA MOHAWK - NET COST SAVINGS FOR TRANSFER
- SCHEDULE - 18-24 MONTHS

- CURRENT ACTIVITIES

- INSTRUMENTATION OF IF-300 CASK
- GE SETTLEMENT AGREEMENT
- ASSIST IN LICENSE AMENDMENT PREPARATION FOR NIAGARA MOHAWK

REPROCESSING OPTION

- BACKGROUND
 - REPROCESS FUEL, SELL RECOVERED PRODUCT, KEEP WASTE
 - NYPA REQUESTED PROPOSALS FROM BNFL AND COGEMA

- PROGRESS
 - TECHNICAL EVALUATION COMPLETE
 - FEASIBLE TO LICENSE AND TRANSPORT FUEL
 - OVERALL SCHEDULE - 24-29 MONTH
 - APPROVAL REQUIRED FROM FRENCH COMPETENT AUTHORITY (FCA), STATE DEPARTMENT, DOT AND NRC - PROJECTED TO TAKE 6 MONTHS

- CURRENT ACTIVITIES
 - NYPA CONTINUES DISCUSSIONS WITH COGEMA
 - AUTHORIZATION TO PREPARE LICENSE APPLICATION FOR CASK

NYPA DECOMMISSIONING PLAN

- DRAFT PLAN PREPARED AND IN REVIEW
- MAJOR ELEMENTS
 - DECON METHOD (EARLY DISMANTLEMENT)
 - SEGMENTATION OF VESSEL
 - COMPLETION IN 1993
- LILCO INPUTS
 - MUCH OF LILCO PLAN UTILIZED
 - NED REANALYZED ACCIDENT SCENERIOS
- SUBMITTAL SCHEDULED BY END OF DECEMBER

NRB MEETING 12/13/90

- NQAD REORGANIZATION
- DECONTAMINATION PROGRAM QUALITY ASSURANCE
- QA PROGRAM REVIEW - YEAR END 1990
- NQA DEPARTMENT OVERVIEW

NQAD REORGANIZATION

NUCLEAR QUALITY ASSURANCE REPORTING:

- CORPORATE QUALITY ASSURANCE
 - POLICY MATTERS
 - PERSONNEL ADMINISTRATION
 - COORDINATION OF RESOURCES
 - BUDGETARY CONTROL

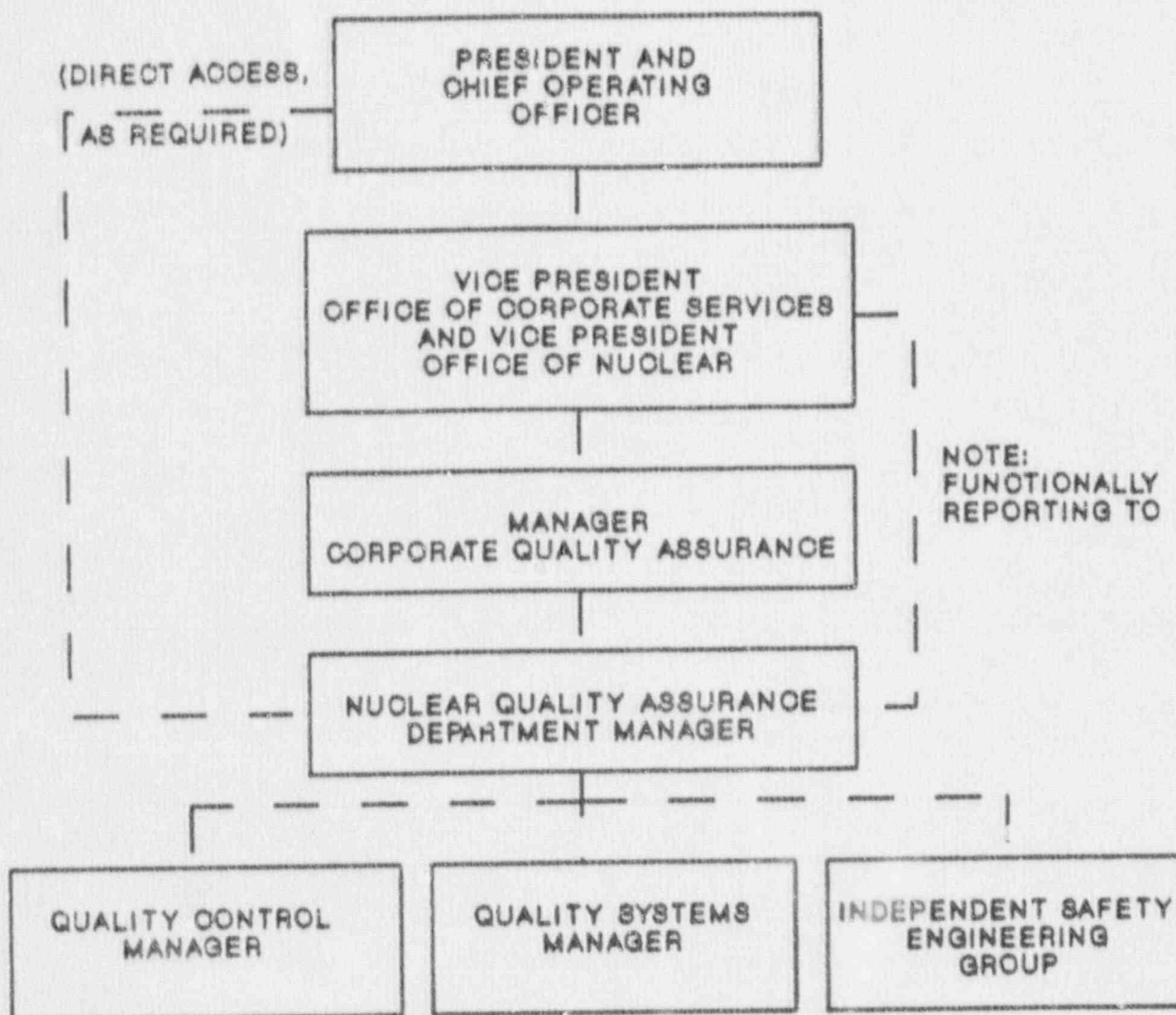
- VICE PRESIDENT OFFICE OF CORPORATE SERVICES AND VICE PRESIDENT OFFICE OF NUCLEAR
 - DIRECT OPERATIONAL CONTROL
 - DAY-TO-DAY QA PROGRAM ACTIVITIES

- PRESIDENT:
 - DIRECT COMMUNICATION FOR MATTERS CONCERNING NUCLEAR SAFETY

NQAD REORGANIZATION

- NRB REPORTS DIRECTLY TO VICE PRESIDENT OFFICE OF CORPORATE SERVICES AND VICE PRESIDENT OFFICE OF NUCLEAR
- ISEG REPORTS DIRECTLY TO MANAGER NQAD, SAFETY ENGINEERING AND RELIABILITY DIVISION ELIMINATED
- NDE REPORTS TO MANAGER CORPORATE QUALITY ASSURANCE VIA CORPORATE QUALITY CONTROL DIVISION MANAGER

ORGANIZATION FOR NUCLEAR QUALITY ASSURANCE



DECONTAMINATION PROGRAM QUALITY ASSURANCE

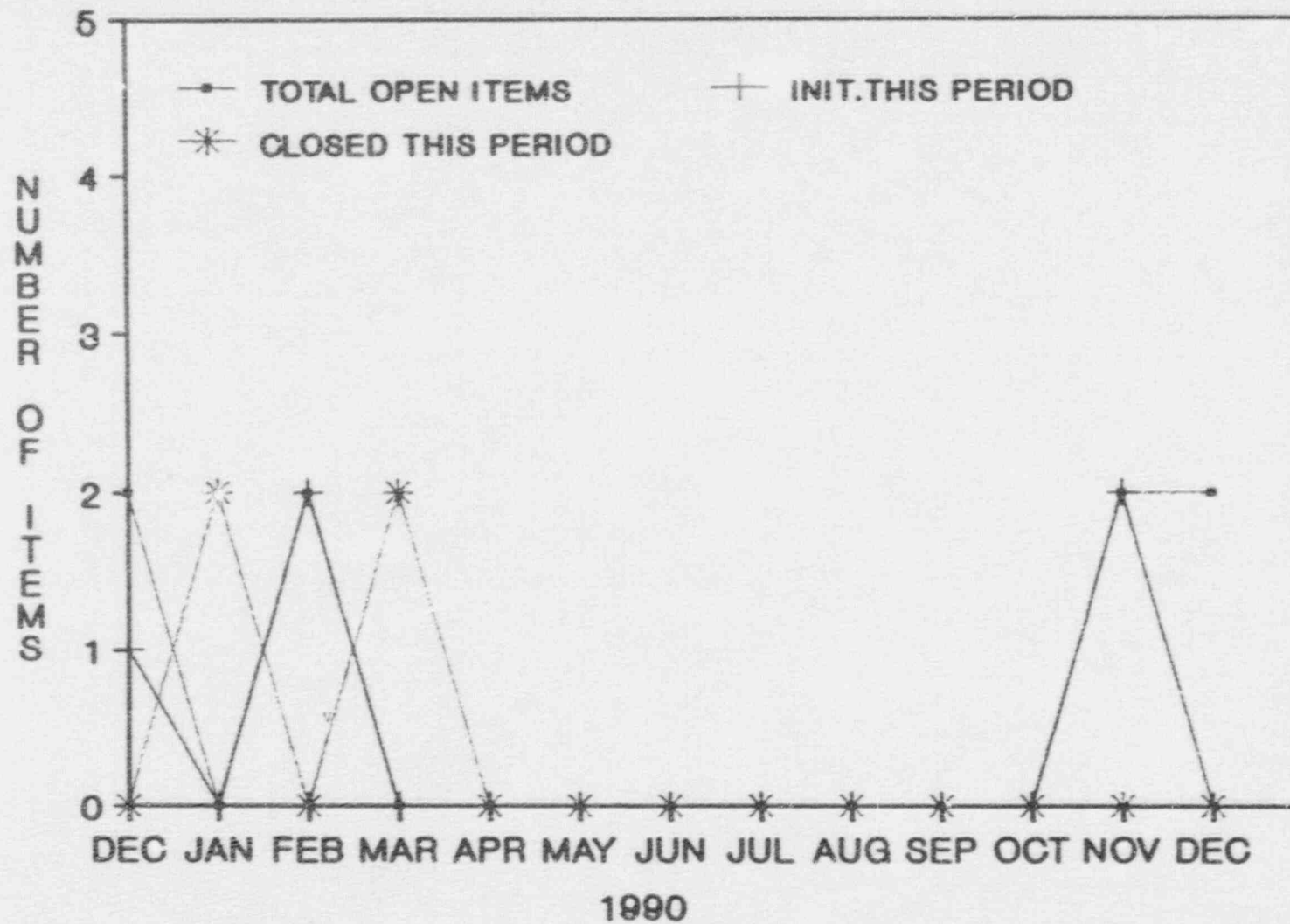
- PIPING SYSTEMS AND STRUCTURAL
 - CHARACTERIZATION PRIOR TO DECON WITNESSED BY QC
 - BID SPEC RECEIVED TECHNICAL AND QUALITY ASSURANCE REVIEWS
 - TASK FORCE EVALUATION OF DECONTAMINATION PROCESS
 - TASK FORCE INCLUDES ENGINEERING AND QUALITY ASSURANCE
 - MATERIAL STUDY 6 SYSTEMS/22 DIFFERENT MATERIAL COUPONS
 - INDEPENDENT CONFIRMATORY TESTING
 - PLANT MAINTENANCE AND QUALITY ASSURANCE PERSONNEL TRAINED IN HYDROLAZER OPERATION AND SAFETY
 - MAINTENANCE PERSONNEL HYDROLAZER QUALIFICATION VERIFIED BY QC
 - FINAL SURVEY AFTER DECON WITNESSED BY QC

QA PROGRAM REVIEW

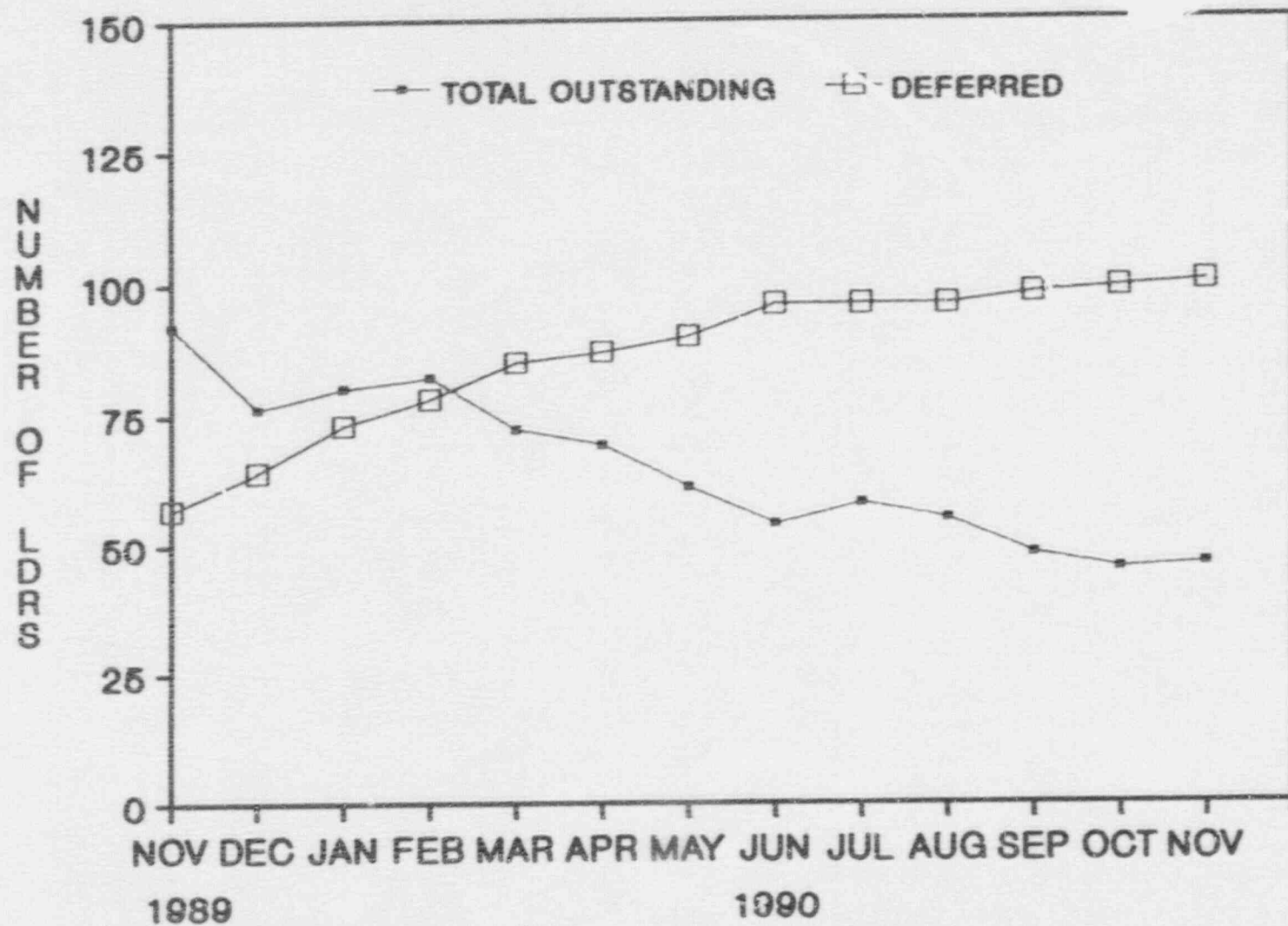
YEAR END 1990

- AUDITS
 - TOTAL AUDITS - 16
 - NRB - 10
 - NQA - 6
 - FINDINGS - 22
 - CURRENTLY OPEN - 3
- PROCUREMENT AUDITS
 - TOTAL AUDITS - 43
 - NUPIC - 34
 - LILCO - 7
 - OTHER - 2
- HOTLINE
 - 1990 - 4
 - 1989 - 7
- LDR
 - 1990 TOTAL - 124
 - 1989 TOTAL - 211
- CAR
 - 1990 - 1
 - 1989 - 2
- TREND
 - MATERIAL UTILIZATION CAR 90-01 - 1st Qtr
 - TRAINING QUALIFICATIONS - 3rd Qtr

QUALITY HOTLINE PROGRAM



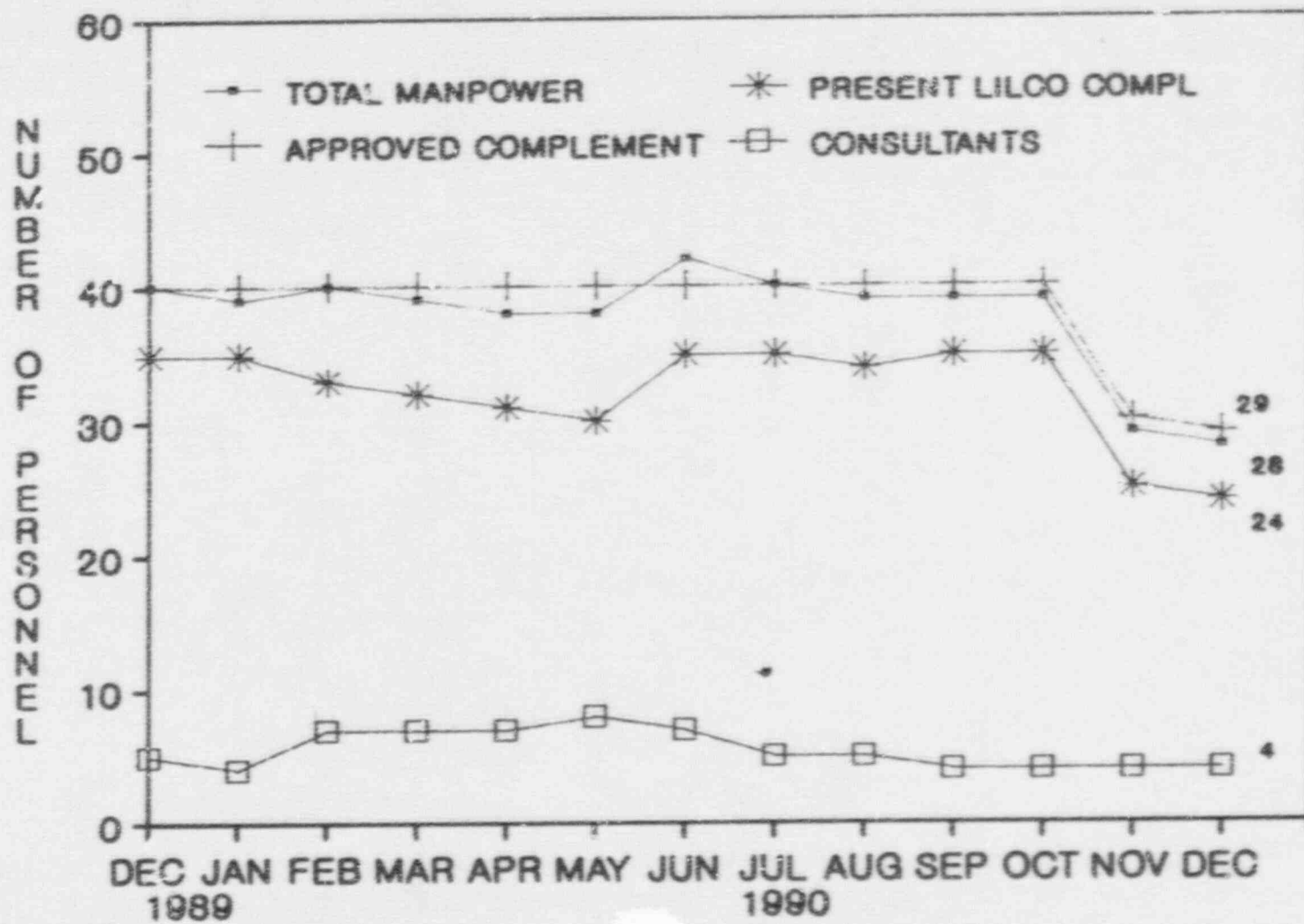
SHOREHAM OPEN LDR'S



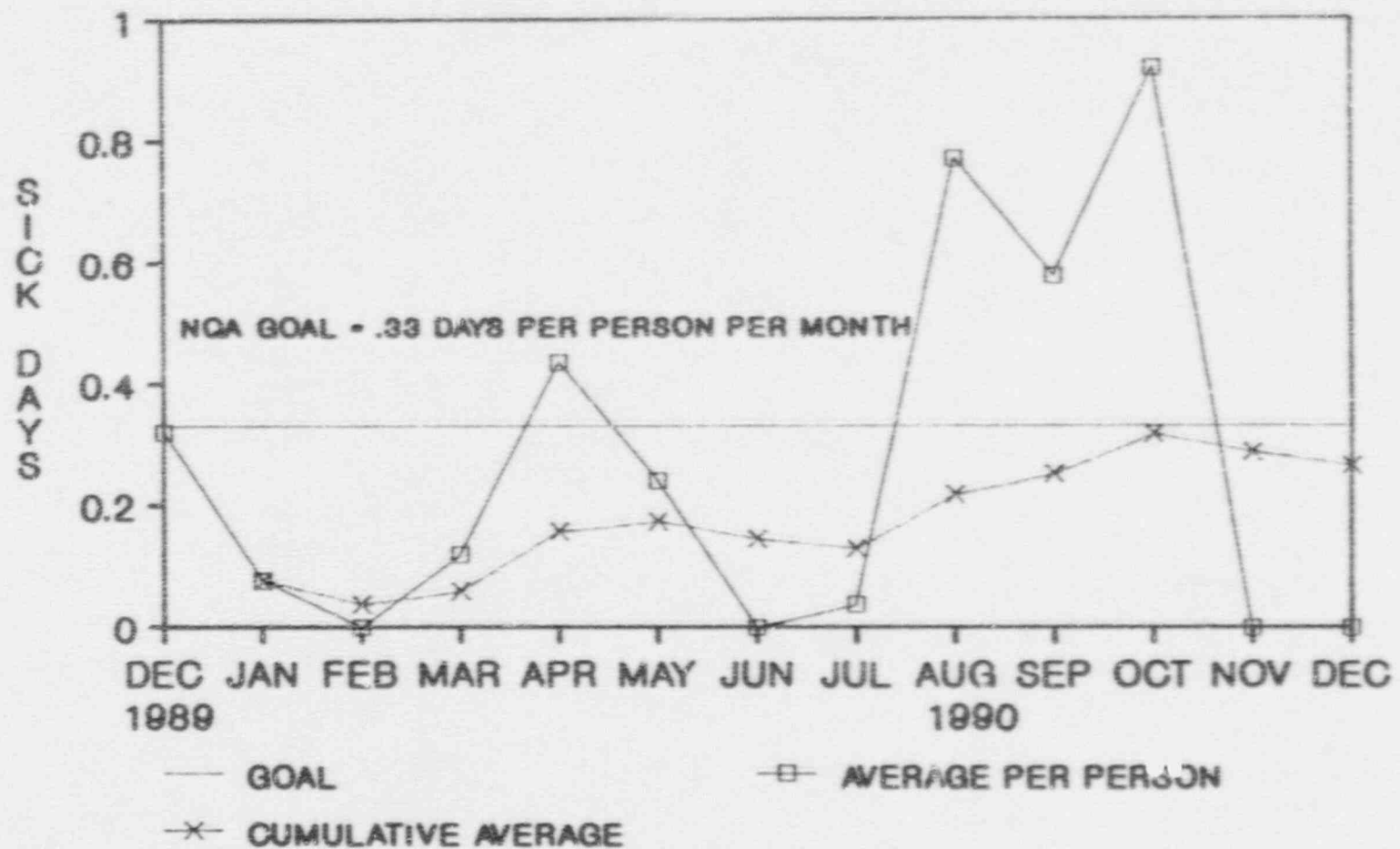
NQA DEPARTMENT OVERVIEW

- STAFFING
- SICK RECORD
- TEMPORARY ASSIGNMENTS
- LIPA/NYPA

NQA MANPOWER CHART



NQA MONTHLY AVERAGE SICK LEAVE



*DOES NOT INCLUDE MATERNITY.
ANNUAL GOAL IS 4 DAYS PER PERSON

Attachment 4

Letter Documenting

Drop-In Visit by

John Leonard, LILCo



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406

SEP 21 1990

Docket No. 50-322

Long Island Lighting Company
ATTN: Mr. John D. Leonard, Jr.
Vice President - Offices of
Corporate Services and Nuclear
Shoreham Nuclear Power Station
P. O. Box 618, North Country Road
Wading River, New York 11792

Gentlemen:

We appreciate the brief remarks on status and schedules you provided to my staff and me during your drop-in visit at the Region I office of the NRC on September 11, 1990. Enclosed is a summary of our discussion; please contact me promptly if you note any errors in this summary.

Sincerely,

A. Randolph Blough, Chief
Reactor Projects Branch No. 2
Division of Reactor Projects

Enclosure: as stated

cc w/encl:
L. Calone, Plant Manager
J. Wynne, Operations Division Manager
R. Gutmann, Manager, Nuclear Operations Support
R. Kascasak, Manager, Nuclear Engineering
V. Staffieri, General Counsel
W. Maloney, Manager, QA Department
Director, Power Division
State of New York, Department of Law
Shoreham Hearing Service List
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
NRC Resident Inspector
State of New York

SEP 21 1990

cc w/encl:

Region 3 Down Room (with concurrences)

Management Assistant, DRMA (w/o encl)

Penamy, DRSS

Snapp, DRSS

Hodges, DRS

L. Doerflein, DRP

B. Norris, DRP

J. Nakoski, DRP

M. Young, OGC

K. Abraham, PAO (2)

J. Caldwell; EDO

S. Weiss, NRR

S. Brown, NRR

C. Mullins, OGC

SHOREHAM SERVICE LIST

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Ben Wiles, Esquire
Counsel to the Governor
Executive Chamber
State Capitol
Albany, New York

Fabian G. Palomino, Esquire
Suffolk County Attorney
Executive Chamber
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Albany, New York 12224

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Waltham, Massachusetts 02154

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ENCLOSURE

Drop-in Visit from LILCO Vice-President

On September 11, 1990, Mr. John D. Leonard, Jr., (Vice-President, Offices of Corporate Services and Nuclear) from LILCO visited the NRC Region I offices on short notice. He met with Mr. A. R. Blough, Reactor Projects Branch Chief, Mr. L. T. Doerflin, Reactor Projects Section Chief, and Mr. B. S. Norris, Projects Inspector (Shoreham), from 9:00 a.m. until 9:45 a.m. Mr. Leonard had requested the visit to ensure that the region is kept current with respect to the activities at Shoreham. Mr. Leonard discussed status of the following areas:

- * License transfer request - LILCO's operating costs will be reduced once the license is transferred to the Long Island Power Authority.
- * Financial plan for decommissioning - LILCO is considering revising their previous submittal.
- * Decontamination of plant systems - LILCO has decided to do a pilot decontamination of the Reactor Water Clean-Up (RWCU) system using the "regenerative decontamination" method.
- * Quality Assurance (QA) - LILCO is considering requesting a change to the USAR which will allow the Corporate QA and site Nuclear QA groups to be combined.
- * NUMARC - Mr. Leonard provided to the NRC Region I, copies of two NUMARC letters that had been sent to NRC Headquarters. The subjects of the letters are: (1) Nuclear Plant Closure Activities that may be Prepared in Advance of Approved Decommissioning Plan (April 3, 1990), and (2) National Environmental Policy Act (NEPA) as it relates to decommissioning (April 6, 1990).
- * Shipping of components - LILCO is pursuing options for shipping of the IRMs and SRMs, the control rod blades, and the fuel support pieces.
- * EP News Center - the Emergency Plan News Center is being returned to Haupauge to be closer to the site.

No technical, licensing or unresolved items were discussed substantively.