

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

December 2, 1996

LICENSEE:

Pennsylvania Power and Light Company

FACILITY:

Susquehanna Steam Electric Station (SSES), Units 1 and 2

SUBJECT:

SUMMARY OF OCTOBER 30, 1996 MEETING TO DISCUSS INSTALLATION OF ON-

SITE STORAGE FACILITY FOR SPENT FUEL AT SSES, UNITS 1 AND 2

On October 30, 1996 a management meeting was held between members of the Office of Nuclear Reactor Regulation (NRR), Office of Nuclear Material Safety and Safeguards (NMSS), and Pennsylvania Power & Light Company (PP&L or the licensee) to discuss the licensee's plans for design and installation of a new on-site storage facility for spent fuel at the Susquehanna Steam Electric Station located in Berwick, Pennsylvania. Enclosure 1 is a list of the meeting attendees.

The first part of the meeting was a presentation by PP&L staff about PP&L's design control process, a discussion of the spent fuel storage design, public involvement and quality assurance oversite of the design process, plans for implementation, project organization, and the strategy for implementation. Enclosure 2 is a set of the slides outlining the details of the discussions. Other key items discussed were that 13 procedures are in draft form now with the remainder expected to be completed in draft by the end of the year. The approved procedures would then be "dry runned" and also evaluated at the Davis Besse site when its procedures are being implemented. PP&L also emphasized that it will maintain its vigilance over the project and considers the work to be as important as a safety-related modification to the plant. Also, it was stated that the licensee was developing detailed design basis documentation which would be developed for the project.

During the second part of the meeting, the NMSS staff provided a discussion of the status of pending regulatory guidance regarding Part 72 licensing. Specifically new inspection procedures are being issued, a draft Standard Review Plan (SRP) section is to be issued in January for general license reviews, a site-specific license SRP is expected to be issued in draft for comments soon and transportation and dual purpose license SRP sections are also under development. Other industry issues were mentioned for consideration including the quality of concrete aggregate in the storage modules, the use of thermal heat shield paint in the casks, and American Society of Mechanical Engineers Code and testing requirement development.

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Participants stated that the exchange of information was valuable for both the licensee and regulator and the staff noted that it felt that PP&L was doing a good job in its oversite and control of the quality of the project.

/S/
Chester Poslusny, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-387/388

Enclosures: 1. Meeting Attendees List

2. Licensee's Handouts

cc w/encls: See next page

DISTRIBUTION: *w/Enclosures 1 and 2

*Docket File

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RZimmerman

SVarga

JZwolinski

JStolz

*CPoslusny

MO'Brien

EJordan (JKR)

WReckley

FSturz

ELeeds

JMcGinty

PEng

PRay

GMarcus

JSpets

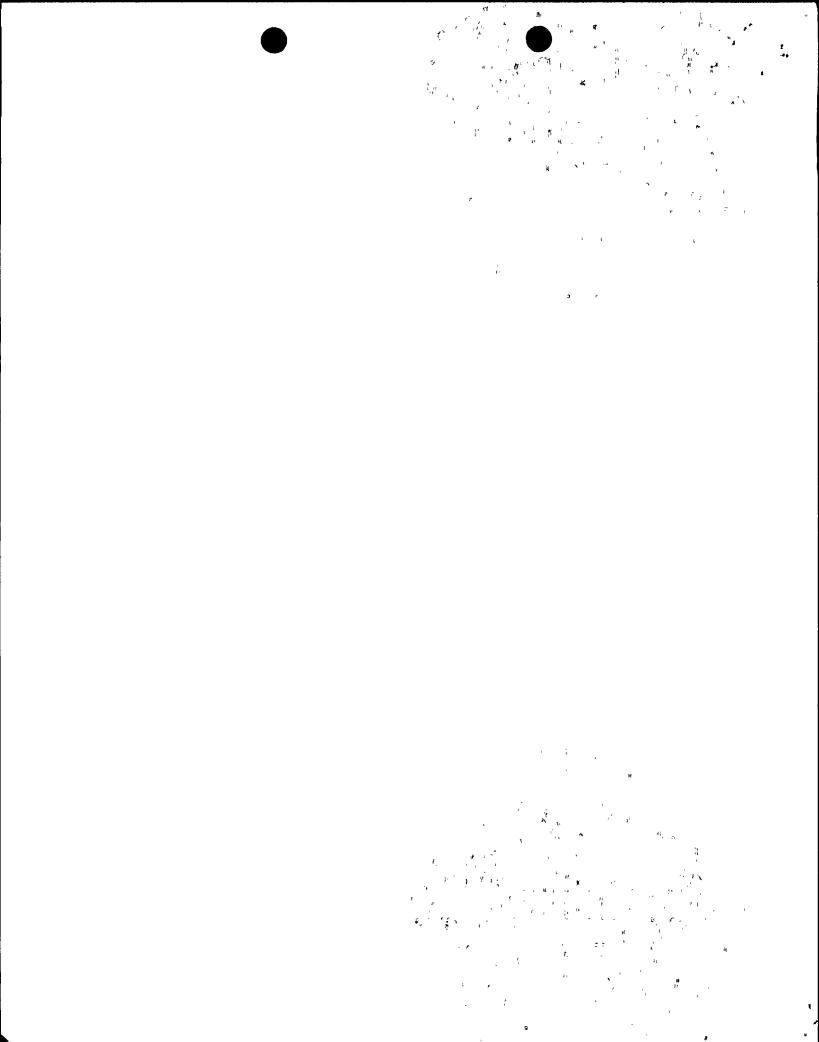
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Participants stated that the exchange of information was valuable for both the licensee and regulator and the staff noted that it felt that PP&L was doing a good job in its oversite and control of the quality of the project.

Chester Poslusny, Senior Project Manager Project Directorate I-2

Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

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cc w/encls: See next page

Pennsylvania Power & Light Company

Susquehanna Steam Electric Station, Units 1 & 2

cc:

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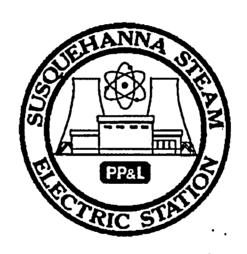
MEETING ATTENDEES LIST

INSTALLATION OF ON-SITE STORAGE FACILITY FOR SPENT FUEL

OCTOBER 30, 1996

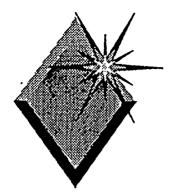
NAME	<u>ORGANIZATION</u>
S. Varga	NRC/NRR
W. Reckley	NRC/NRR
C. Poslusny	NRC/NRR
F. Sturz	NRC/NMSS
E. Leeds	NRC/NMSS
T. McGinty	NRC/NMSS
P. Eng	NRC/NMSS
P. Ray	NRC/NRR
G. Marcus	NRC/NRR
J. Spets	NRC/NMSS
C. Haughney	NRC/NMSS
J. Kenny	PP&L
W. Burchill	PP&L
R. Saccone	PP&L
G. Miller	PP&L
G. Jones	PP&L
D. Maron	PP&L
R. Matthews	PP&L
R. Sgarro	PP&L
K. Kelenski	PP&L
H. Woodeshick	PP&L
D. Larkin	WPPSS
V. Franceschi	Vectra
A. Nelson	NEI
B. Maiers	PADEP-BRP
A. Panogos	ComEd

SPENT FUEL STORAGE SENIOR MANAGEMENT MEETING



U.S. Nuclear Regulatory Commission Rockville, MD

OCTOBER 30, 1996



SPENT FUEL STORAGE AT SUSQUEHANNA STEAM ELECTRIC STATION

SENIOR MANAGEMENT MEETING U.S. NRC

October 30, 1996 Rockville, MD

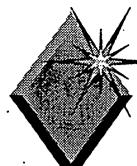


PP&L's Plans for Spent Fuel Storage at Susquehanna Steam Electric Station

◆ Introduction	G. T. Jones
·	Vice President - Nuclear Operations
♦ Management Perspective	G. D. Miller
•	Manager-Nuclear Engineering
◆ Project Overview	R. A. Saccone
	Manager-Nuclear Modifications
♦ Quality Assurance	W. E. Burchill
•	Manager-Nuclear Assessment Services



- ◆ PP&L's Design Control Process
- ◆ SSES ISFSI Attributes
 - Pad Design
 - Public Involvement
 - QA Oversight



PP&L MANAGEMENT PERSPECTIVE

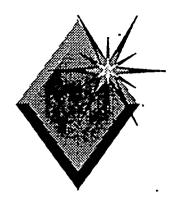
- Specific Standards Applied to this Project Include:
 - Regulatory Compliance
 - Industry Experience
 - Good Public Involvement
 - Proactive Approach
 - Strong Management Involvement and Commitment of Resources
 - Engineering Accountability
 - Strong Quality Assurance Plan



- ◆ Susquehanna Steam Electric Station 2 Unit Site, each consisting of a General Electric Boiling Water Reactor, BWR/4 with a 1150 MWe nominal rating.
- ◆ Unit 1 original fuel load July 27, 1982; commercial operation June 8, 1983.
- ◆ Unit 2 original fuel load March 28, 1984; commercial operation February 12, 1985.
- Common Refuel Floor and Maintain a Single Failure Proof Crane



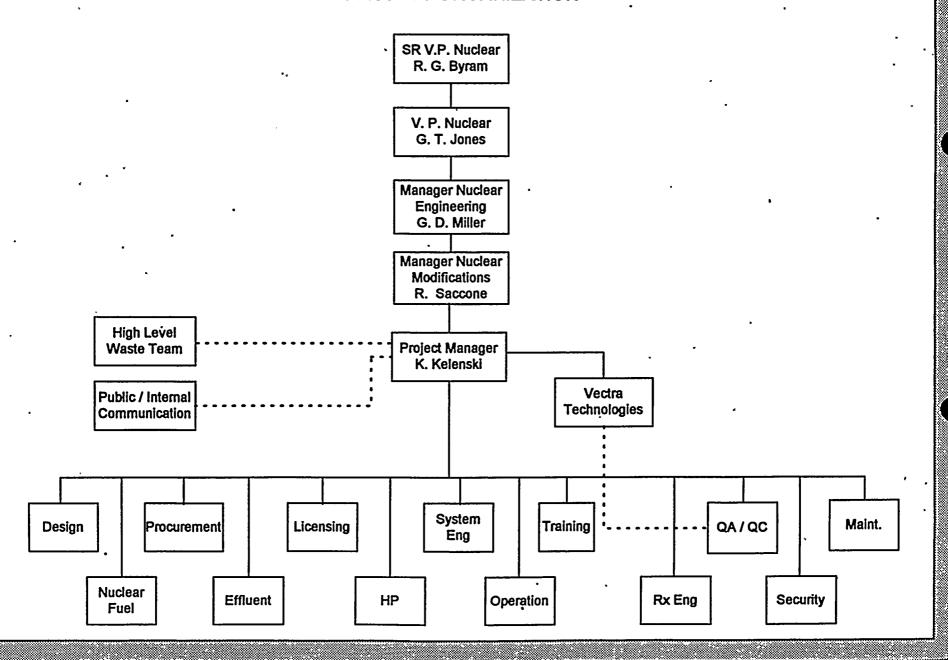
- ◆ Each Unit has its own spent fuel storage pool
- Project Objective/Schedule is predicated on maintaining Dual Core Offload Capabilities
- ◆ Project Plan calls for the first fuel moves to the Independent Facility to begin in September 1997



PROJECT ORGANIZATION

SPENT FUEL STORAGE PROJECT

PROJECT ORGANIZATION





- Siting Report September, 1992
- Phase I Technical Assessment February, 1993*
- Performance Specification Developed for Reracking and Dry Cask Storage - June, 1993*
- Final Technical Assessment Completed -October, 1994*
- ♦ Awarded Contract January 1995*



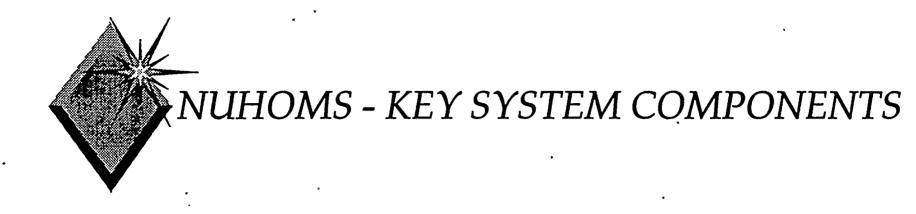
- ◆ A Public Involvement Program was initiated to ensure Public awareness and to solicit input into decision making process
- Various methods of presenting PP&L's plans were implemented:
 - Presentations to the Susquehanna Citizens Committee
 - Personal Notification of Area Officials
 - Media Day
 - Presentations to Volunteer Organizations which support the Susquehanna Emergency Response Organization
 - Articles in the Susquehanna Newsletter which is distributed to the surrounding communities



 VECTRA "NUHOMS" (Horizontal Storage Technology)

Implementing under General License

 ◆ Certificate of Compliance (Certificate Number 72-1004)



◆ Dry Shielded Canister (DSC's)

♦ Horizontal Storage Modules (HSM's)

◆ Transfer Cask

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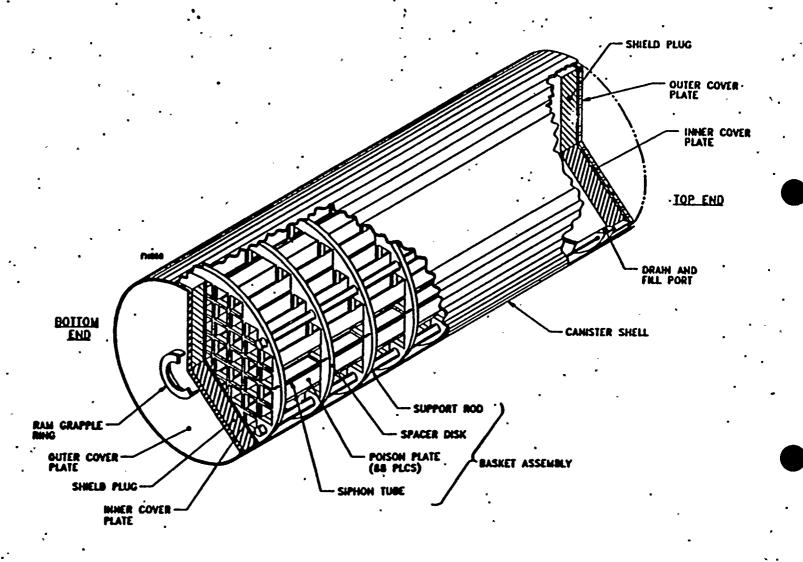
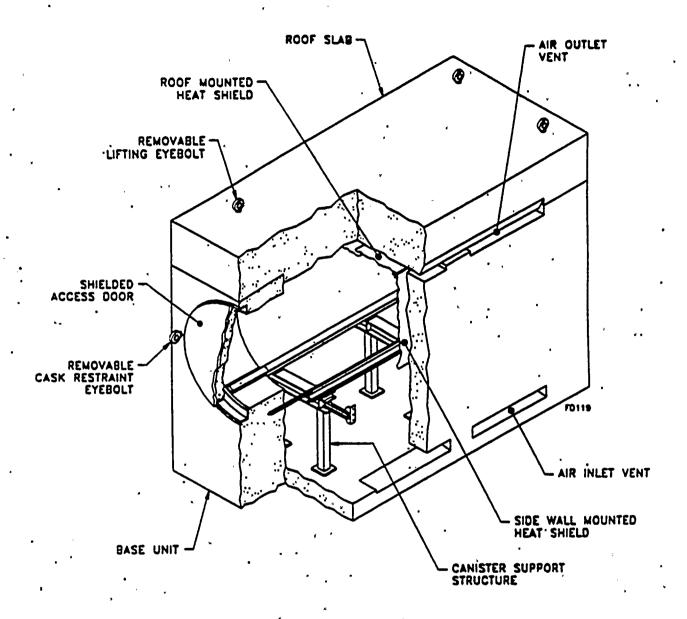


Figure 2.2-2

NUHOMS®-52B Dry Shielded Canister Assembly Components



"Figure 2.3-1
Prefabricated NUHOMS® Module

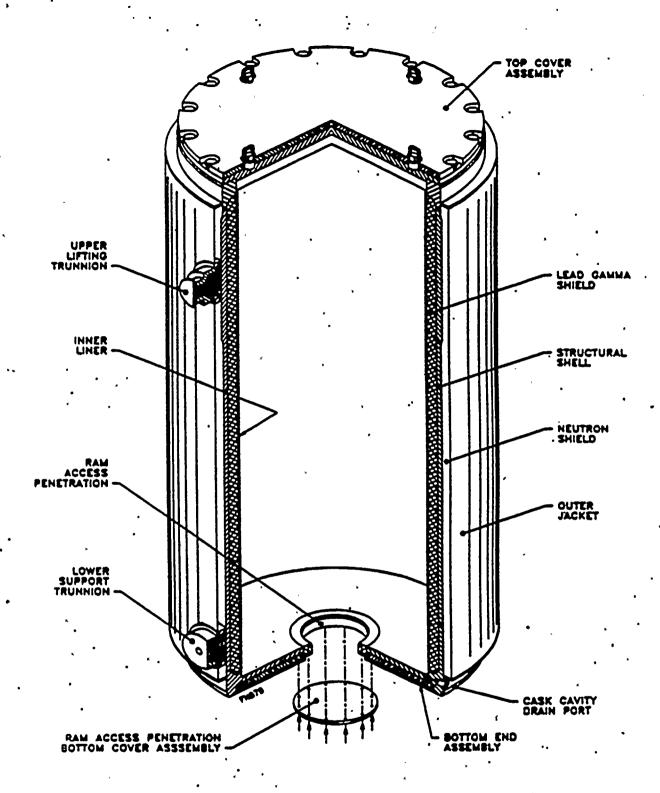
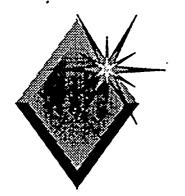
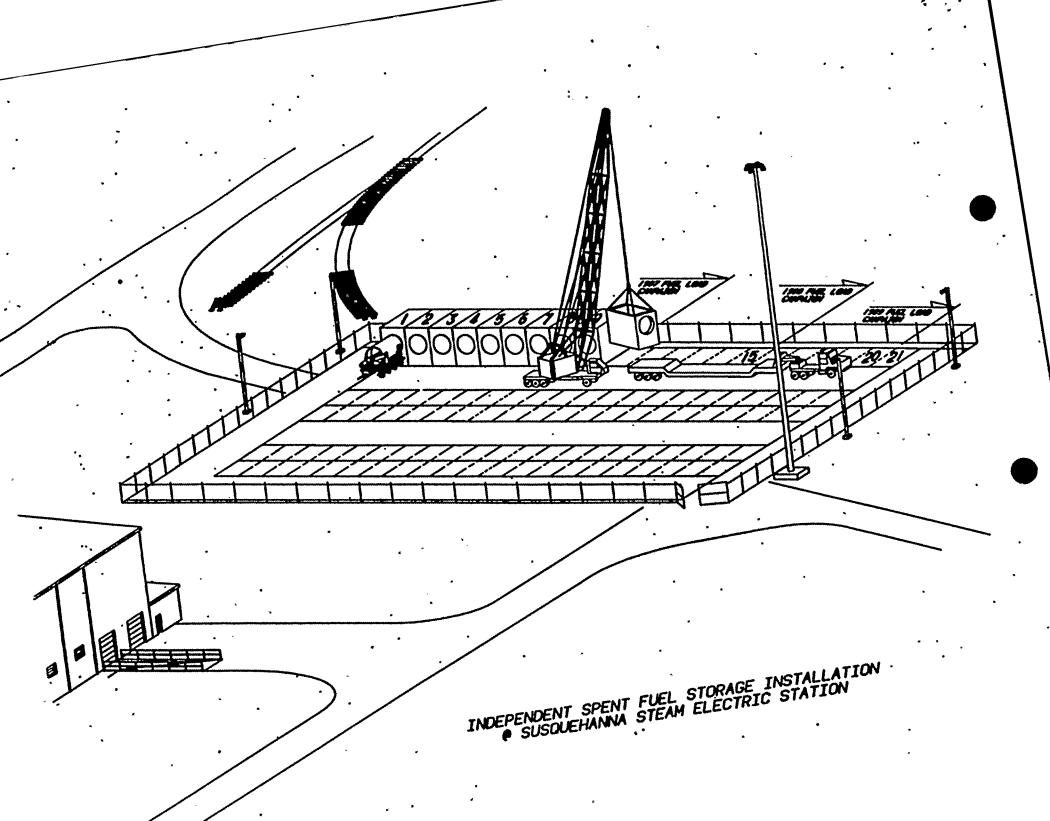


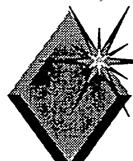
Figure 2.4-1

NUHOMS® On-Site Transfer Cask



SSES SPENT FUEL STORAGE FACILITY





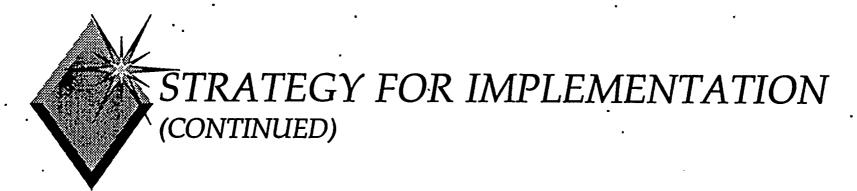
STRATEGY FOR IMPLEMENTATION

Design

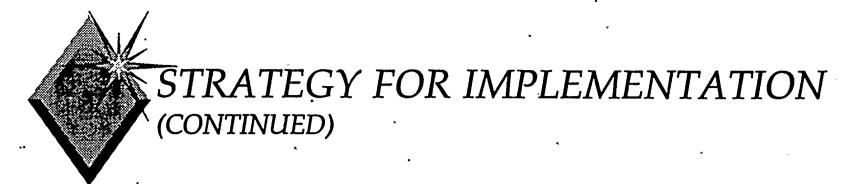
- PP&L's Project Management and Design Control Process
- Other utilities experience factored into SSES design

◆ Construction

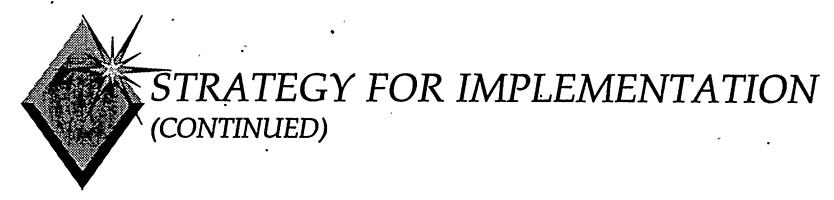
- SSES ISFSI is being constructed inside the protected area and is encompassed by the existing Security and Emergency Plans
- Spent Fuel Storage Pad
- Fencing
- Lighting
- Temperature Monitoring



- Fabrication of Components
 - Horizontal Storage Modules -Bayshore, Cape Charles VA.
 - Dry Shielded Canisters Ranor, Westminster MA.
 - Transfer Cask- Leased from VECTRA
 Technologies (Fabricated by Ranor)



- Operation tasks to support operation have been defined and will factor in Industry Experiences
 - Procedures Development
 - Training
 - Movement of Spent Fuel

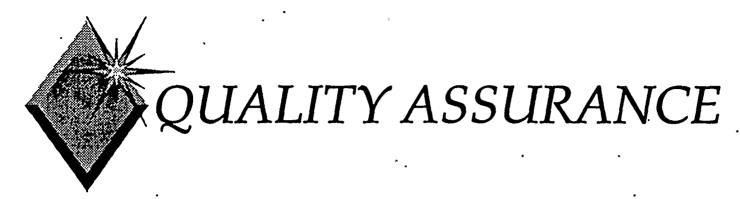


◆ Extensive Preplanning

◆ Certified Horizontal Design

◆ Public Involved in Decision

◆ PP&L 's Design Control Program



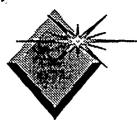
 PP&L has put together a comprehensive Quality Assurance Plan for this Project

 Special Integrated Quality Assurance Plan

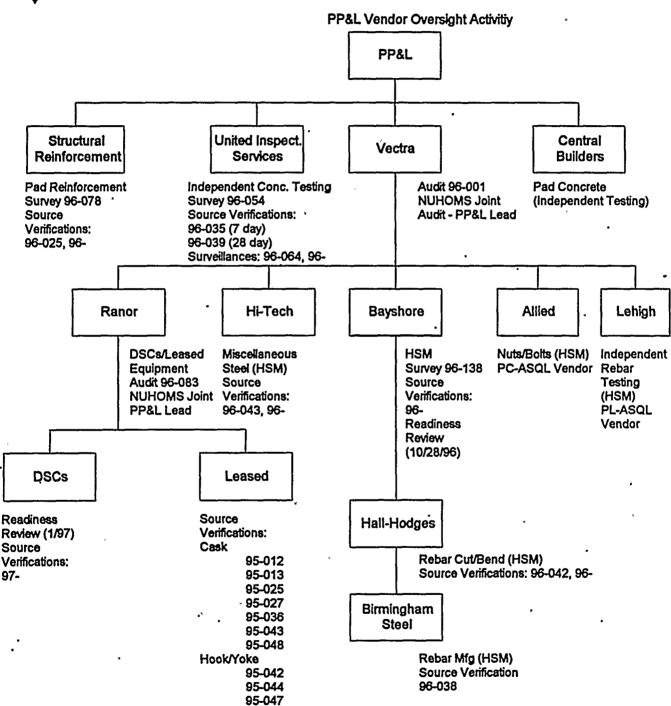
PP&L Initiatives

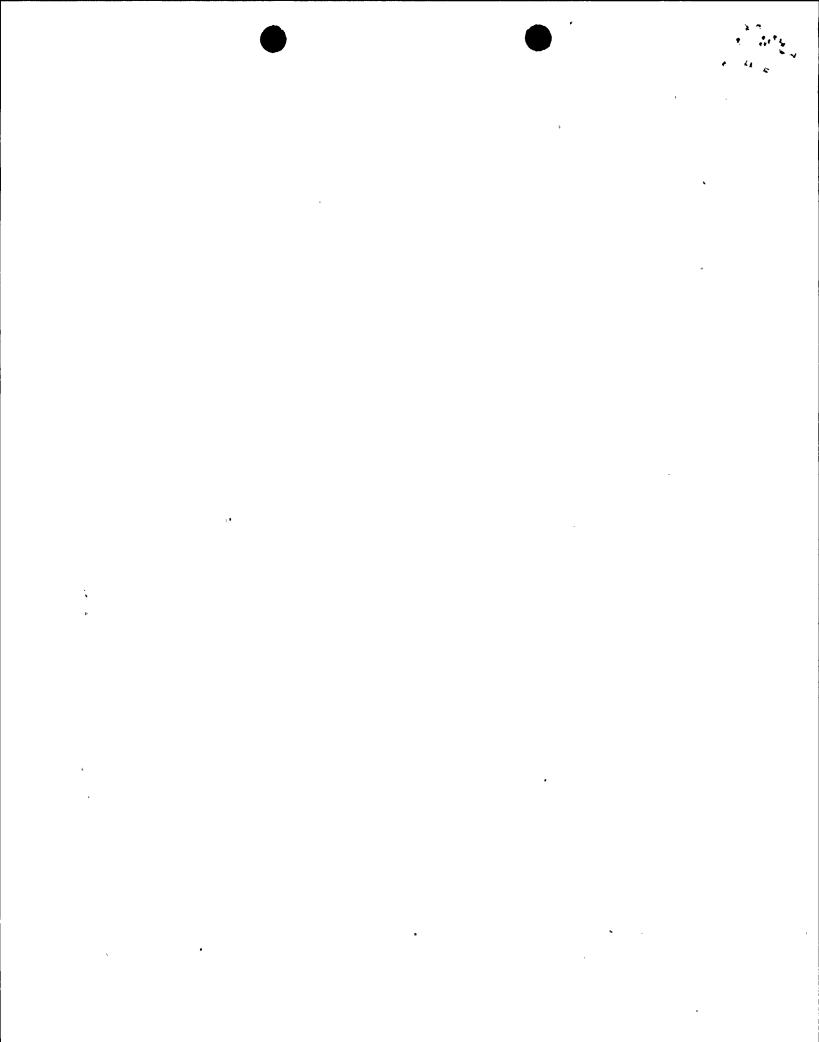


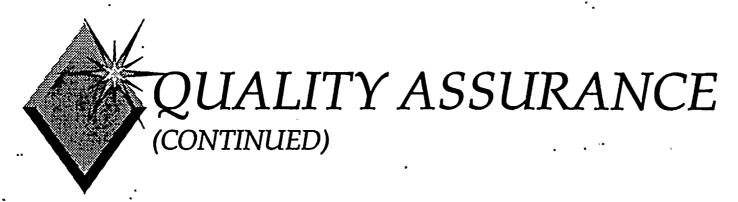
- ◆Integrated Quality Assurance Plan
 - Design Review/Technical Evaluations
 - Procurement/Fabrication Oversight
 - On Site Construction Oversight
 - Operations/Maintenance Oversight



QUALITY ASSURANCE (CONTINUED)

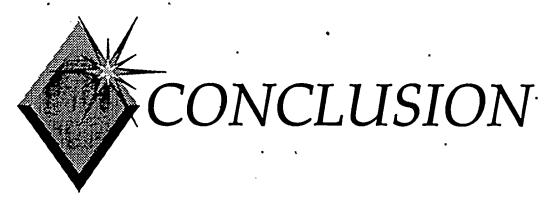






◆ PP&L Initiatives

- VECTRA Project Instruction FS-PPL-96-01
- NUHOMS Owners' Group QA Subcommittee
- NUHOMS Owners' Group Audit Team Leader
 - VECTRA, San Jose, CA
 - Ranor, Westminster, MA
- Leased Equipment Control
- Reactor Water Chemistry
- Load Test Calibration



◆ PP&L OWNS and is ACCOUNTABLE for all activities associated with the Design, Construction, and Operation of the ISFSI at SSES.

Ownership and Accountability demonstrated through:

- Strong Management Commitment.
- Integrated Project Team.
- Comprehensive Quality Assurance
- Compliance to applicable Regulatory requirements
- Continued Lessons Learned, both Others & PP&L.
- ◆ The SSES ISFSI is being Designed, Constructed, and Operated to PP&L's Standards and the NRC's Expectations.

See To

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