

December 1, 1998

Carolina Power & Light Company
ATTN: Mr. C. S. Hinnant, Senior Vice President
Nuclear Generation & Chief Nuclear Officer
Carolina Power & Light Company
CPB-12
P.O. Box 1551
Raleigh, NC 27602-1551

SUBJECT: MEETING SUMMARY - ENGINEERING, CONFIGURATION MANAGEMENT,
AND CORPORATE SUPPORT ISSUES (BRUNSWICK 50-325, 50-324;
HARRIS 50-400; AND ROBINSON 50-261)

Dear Mr. Hinnant

This refers to the open meeting that was conducted at your request at the Region II office on November 19, 1998, to discuss configuration management initiatives and design control organization changes, and to review the effectiveness of your corporate support organization. A list of attendees and a copy of your presentation handouts are enclosed.

It is our opinion that this meeting was beneficial in that you provided a current status of the subjects listed above.

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

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

Sincerely,
(Original signed by B. R. Bonser)

Brian R. Bonser, Chief
Reactor Projects Branch 4
Division of Reactor Projects

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

Enclosures: 1. List of Attendees
2. Licensee Presentation Handouts

cc w/encls:

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cc w/encls

Director
Site Operations
Brunswick Steam Electric Plant
Carolina Power & Light Company
P. O. Box 10429
Southport, NC 28461

J. J. Lyash, Plant Manager
Brunswick Steam Electric Plant
Carolina Power & Light Company
P. O. Box 10429
Southport, NC 28461

D. B. Alexander, Manager
Performance Evaluation and
Regulatory Affairs CPB 9
Carolina Power & Light Company
P. O. Box 1551
Raleigh, NC 27602-1551

K. R. Jury, Manager
Regulatory Affairs
Carolina Power & Light Company
Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429

William D. Johnson
Vice President & Senior Counsel
Carolina Power and Light Company
P. O. Box 1551
Raleigh, NC 27602

Mel Fry, Director
Division of Radiation Protection
N. C. Department of Environment
and Natural Resources
3825 Barrett Drive
Raleigh, NC 27609-7721

Karen E. Long
Assistant Attorney General
State of North Carolina
P. O. Box 629
Raleigh, NC 27602

Robert P. Gruber
Executive Director
Public Staff NCUC
P. O. Box 29520
Raleigh, NC 27626-0520

Public Service Commission
State of South Carolina
P. O. Box 11649
Columbia, SC 29211

Jerry W. Jones, Chairman
Brunswick County Board of
Commissioners
P. O. Box 249
Bolivia, NC 28422

Dan E. Summers
Emergency Management Coordinator
New Hanover County Department of
Emergency Management
P. O. Box 1525
Wilmington, NC 28402

William H. Crowe, Mayor
City of Southport
201 E. Moore Street
Southport, NC 28461

J. W. Donahue
Director of Site Operations
MC: Zone 1
Carolina Power & Light Company
Shearon Harris Nuclear Power Plant
P. O. Box 165
New Hill, NC 27562-0165

Bo Clark
Plant General Manager--Harris Plant
Carolina Power & Light Company
Shearon Harris Nuclear Power Plant
P. O. Box 165
New Hill, NC 27562-0165

cc w/encls: (Continue on page 3)

cc w/encls: (Continued)

Chris A. VanDenburgh, Manager
Regulatory Affairs
Carolina Power & Light Company
Shearon Harris Nuclear Power Plant
P. O. Box 165, Mail Zone 1
New Hill, NC 27562-0165

Johnny H. Eads, Supervisor
Licensing/Regulatory Programs
Carolina Power & Light Company
Shearon Harris Nuclear Power Plant
P. O. Box 165, Mail Zone 1
New Hill, NC 27562-0165

Chairman of the North Carolina
Utilities Commission
P. O. Box 29510
Raleigh, NC 27626-0510

Stewart Adcock, Chairman
Board of County Commissioners
of Wake County
P. O. Box 550
Raleigh, NC 27602

Margaret Bryant Pollard, Chairman
Board of County Commissioners
of Chatham County
P. O. Box 87
Pittsboro, NC 27312

J. W. Moyer
Director, Site Operations
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant
3581 West Entrance Road
Hartsville, SC 29550

Plant General Manager
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant
3581 West Entrance Road
Hartsville, SC 29550

J. Scarola
Vice President
Shearon Harris Nuclear Power Plant
Carolina Power & Light Company
PO Box 165 Mail Zone 1
New Hill, NC 27562-0165

H. K. Chernoff, Supervisor
Licensing/Regulatory Programs
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant
3581 West Entrance Road
Hartsville, SC 29550

T. M. Wilkerson, Manager
Regulatory Affairs
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant
3581 W. Entrance Road
Hartsville, SC 29550

Virgil R. Autry, Director
Div. of Radioactive Waste Mgmt.
Dept. of Health and Environmental
Control
2600 Bull Street
Columbia, SC 29201

Hartsville Memorial Library
147 W. College Avenue
Hartsville, SC 29550

B. Clark
Plant General Manager-Harris Plant
Carolina Power & Light Company
Shearon Harris Nuclear Power Plant
PO Box 165
New Hill, NC 27562-0165

D. E. Young
Vice President
H. B. Robinson Steam Electric Plant
Unit 2
Carolina Power & Light Company
3581 W. Entrance Road
Hartsville, SC 29550

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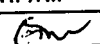
Distribution w/encls:

R. Borchardt, NRR/DISP/PIPB
RII Regional Coordinator OEDO (17G21)
J. Lieberman, OE
P. Kuo, PDII-1
D. Trimble, NRR
L. Plisco, RII
B. Bonser, RII
R. Subbaratnam, NRR
J. Coley, RII
R. Baldwin, RII
J. Lenahan, RII
F. Wright, RII
D. Thompson, RII
D. Jones, RII
J. Coley, RII
S. Flanders, NRR
E. Testa, RII
G. MacDonald, RII
G. West, RII
PUBLIC

NRC Resident Inspector
U.S. Nuclear Regulatory Commission
2112 West Old Camden Road
Hartsville, SC 29550

NRC Resident Inspector
U. S. Nuclear Regulatory Commission
5421 Shearon Harris Road
New Hill, NC 27562-9998

NRC Resident Inspector
U. S. Nuclear Regulatory Commission
8470 River Road, SE
Southport, NC 28461

OFFICE	DRP/RII						
SIGNATURE							
NAME	GMacDonald:vg						
DATE	12/ /98	11/ /98	11/ /98	11/ /98	11/ /98	11/ /98	11/ /98
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LIST OF ATTENDEES

NRC

J. Johnson, Deputy Regional Administrator, Region II (RII)
L. Plisco, Director Division of Reactor Projects (DRP), RII
V. McCree, Deputy Division Director, Division of Reactor Safety (DRS), RII
B. Bonser, Chief, Reactor Projects Branch 4, DRP, RII
W. Rogers, Senior Reactor Analyst, DRS, RII
J. Brady, Senior Resident Inspector, Harris, DRP, RII
J. Lenahan, Senior Reactor Inspector, DRS, RII
G. MacDonald, Senior Project Engineer, DRP, RII
W. West, Project Engineer, DRP, RII

CAROLINA POWER & LIGHT

C. S. Hinnant, Senior Vice President and Chief Nuclear Officer
W. R. Campbell, Vice President, Nuclear Engineering
D. Alexander, Manager Performance Evaluation and Regulatory Affairs
G. Attarian, Chief Engineer, Nuclear Engineering Department
C. A. VanDenburgh, Manager - Regulatory Affairs, Harris Nuclear Plant
R. J. Duncan II, Manager Robinson Engineering Support Section
G. D. Miller, Manager Brunswick Engineering Support Section
D. C. Poteralski, Manager Nuclear Fuels
J. R. Caves, Supervisor Regulatory Affairs

Engineering and Corporate Support Organizations Update

NRC Region II

November 19, 1998

CP&L

Agenda

- Introduction Scotty Hinnant
- Configuration Management Initiative George Attarian
- Design Control Organization Changes Bob Duncan
- Corporate Support Organization Assessment Results Scotty Hinnant
- Summary Scotty Hinnant

Introduction

- **Engineering Management Changes**
 - ◆ Configuration Management Initiative
 - ◆ Design Control Organization Changes
- **Corporate Support Organizations**
 - ◆ Assessment Results
 - ◆ Actions Taken

Configuration Management Initiative Background

- **• Assessments Identified Improvement Areas**
 - ◆ 1997 Configuration Management Assessment
 - ◆ Response to Industry/NRC Engineering Issues
 - ◆ Continuing Self-Evaluation

- **• Conclusion**
 - ◆ Programs are Effective, but Inefficient
 - ◆ Some Backlogs Exist
 - ◆ A Focused Effort Beyond Level-of-Effort is Needed

Configuration Management Initiative Improvement Initiative

- **Investing Approximately \$5M through 2000**
- **Major Focus Areas**
 - ◆ **ESR Process Enhancement**
 - ◆ **EDBS Missing Q Class Fields and Discrepancies in Type A Information**
 - ◆ **Site Specific Calculation/As Built Backlogs**
 - ◆ **Refine Current PSA Models for Each Site**
 - ◆ **RNP Containment Reanalysis**
 - ◆ **Calculation Cross Referencing Capability**

Configuration Management Initiative Expected Results

- **Improved Design Basis Information**
- **Improved Process Efficiency**
- **Other Benefits:**
 - ◆ **Service Water Temperature Increase at RNP**
 - ◆ **License Renewal - RNP/BNP**

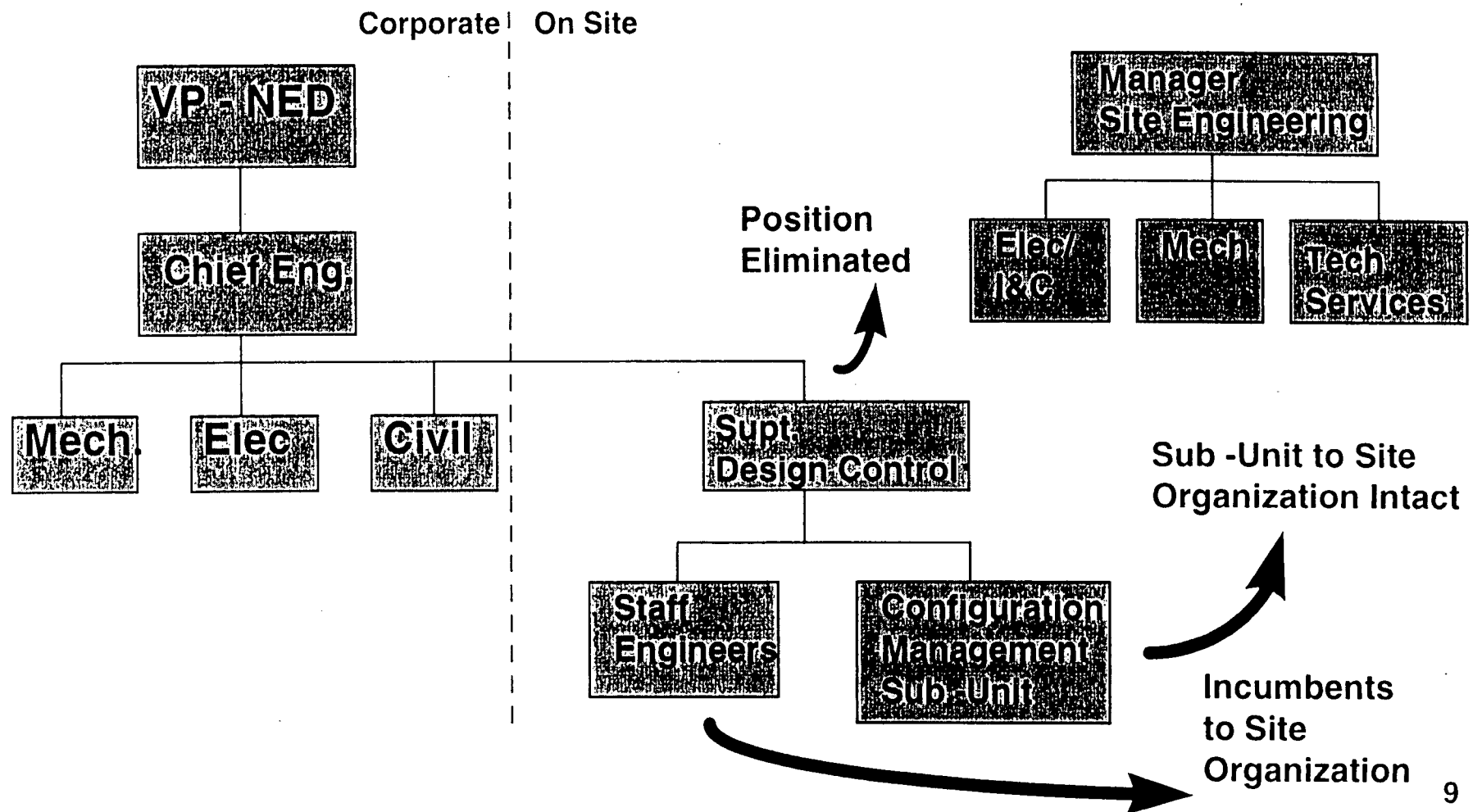
Configuration Management Initiative Summary

- **Engineering Processes and Programs Meet Current Standards**
- **Ongoing Commitment to Improvement**
- **Expect Tangible Benefits in Efficiency and Quality**

Design Control Organization Change Background

- **Engineering Managers' Recommendation in February 1998:**
 - ◆ **Phase Out Design Review Panel**
- **Expectations**
 - ◆ **Site Alignment of Configuration Management**
 - ◆ **Reinforces Site Engineering Management Accountability for Product Quality**
 - ◆ **Chiefs Continue to Drive Consistency in Engineering Processes**

Design Control Realignment (Simplified Organizational Chart)



Design Control Organization Change Background

- **Design Control Functions**
 - ◆ **Engineering Assurance: Design Review Panel**
 - ◆ **Engineering Processes**
 - ◆ **Configuration Management Programs**
- **Established Design Control Unit to Maintain Design Focus During Organization Transition from System/Design Engineering to Plant Engineering**

Design Control Organization Change Implementation

- **Transitioned Back to Design/System Organization**
- **Engineering Assurance to be Transferred to Design Engineering Supervision**
 - **Common Procedure - Line Assessment of Product Quality**
- **Engineering Process and Configuration Management Programs Reassigned to Site Engineering**
 - **Configuration Management Sub-Unit to Line Organization**
- **Consistency Driven by Chiefs organization**

Design Control Organization Change Transition Plan

- **December 1998 - Site Engineering Organizations Implement New Procedure**
- **December 1998 - Chiefs Implement Plan for Independent Assessment of Site Organization Product Quality and Standards**
- **January 1999 - Eliminate Design Control Organization and Transfer Configuration Management Subunit to Site Engineering Organization**
- **Mid 1999 - Followup Assessment**

Corporate Support Organization Assessments

- **Background**
- **Results**
- **Cause**
- **Actions**
- **Summary**

Corporate Support Organization Assessments Background

- **Appendix B and Corporate QA Program Functions**
 - ◆ **Chief Engineering**
 - ◆ **Nuclear Fuels**
 - ◆ **Materials Services**
 - ◆ **Energy & Environmental Center Laboratories**
 - ◆ **Nuclear Information Technology**
 - ◆ **Procurement**
 - ◆ **Access Authorization**

Corporate Support Organization Assessments Background

- **Recognized Adverse Trend of Issues Involving Support Groups**
- **CNO Requested Self Assessment**
- **Team**
 - ◆ **NAS**
 - ◆ **PES**
 - ◆ **NSRC Member**
 - ◆ **Industry Peer**

Corporate Support Organization Assessments Results

- **SOME Organizations:**

- ✦ **Were Not Rigorously Complying with Corporate QA Program**
- ✦ **Had Weak or Missing Nuclear Infrastructure**
- ✦ **Were Not Systematically Audited**

- **Consequences Were Minimal - Quality Work Was Being Performed**

Corporate Support Organization Assessments Causes

- **Management Failed To:**
 - ❖ **Establish a Compliance Culture in Some Corporate Groups Performing Nuclear Work**
 - ❖ **Establish Effective CAP and OE Programs in Corporate Groups**
 - ❖ **Assign Clear Audit Responsibility to NAS and PES for Corporate Support Groups**

Corporate Support Organization Assessments Actions Taken

- **Identify and Assess Missed Organizations**
- **Establish Clear Expectations for Nuclear Culture and Rigorous Compliance**
- **Establish Corporate CAP and OE Programs**
- **Revise PES/NAS Audit Schedules/Matrices**
- **Improve NGG Document Hierarchy**
- **Update QA Program Manual**
- **Assign NAS/PES to Evaluate Future Organizational Changes**

Summary

- **Engineering Improvements are Focused on:**
 - ❖ **Improving Configuration Management**
 - ❖ **Improving Process Efficiency**
 - ❖ **Line Responsibility for Engineering Product Quality**

- **Corporate Support Organizations**
 - ❖ **Compliance Not Up To Our Standards in Some Organizations**
 - ❖ **Quality Work Was Being Performed**
 - ❖ **Effective Corrective Actions Have Been Taken**

License Applicant Administrative Walkthrough Examination--NRC-1
Examiner Sheet

A.1: Shift Staffing

Question 1: A licensed RO has been off-shift for 6 months to assist in outage scheduling. He is informed that he is needed to join a shift crew in 2 weeks to fill in for a vacationing shift RO. He had a satisfactory physical examination 18 months ago and has maintained satisfactory performance in the licensed operator requalification training program. In anticipation of rejoining a shift crew, the RO has spent two 8-hour shifts in the control room as the OATC during the past month under the direction of a shift RO.

What additional requirements must be met by the RO before he may fill in for the vacationing RO?

References Allowed? YES X NO

Answer: The RO must complete an additional 24 (40 - 16) hours of "under direction" on-shift time that must include a plant tour and shift turnover.

Reference: SSP-12.1, Conduct of Operations, p. 61 and 62
K/A 2.1.4 (2.3/3.4)

Applicant Response:

SAT UNSAT