



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 9, 2001

LICENSEE: Carolina Power & Light Company (CP&L)
FACILITY: H. B. Robinson Steam Electric Plant Unit 2 (HBRSEP2)
SUBJECT: SUMMARY OF WORKING LEVEL MEETING WITH CP&L STAFF

A meeting with CP&L was conducted on January 16, 2001, at the U.S. Nuclear Regulatory Commission (NRC) offices at 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was for the licensee to discuss the staff requirements for the environmental qualification (EQ) data packages for the HBRSEP2 license renewal effort. The meeting attendees are listed in Enclosure 1.

CP&L indicated their plan to study only those EQ Data Packages with 40 years or greater life (approximately 50). Also, equipment with 40 years qualified life installed after 1991 will be excluded from these studies. CP&L indicated this study will be completed by the end of 2001. Additionally, the licensee gave a progress report on the on-site license renewal work and an outline on the long-term plan for the project (Enclosure 2). The staff requested CP&L to keep the License Renewal and Standards Branch (RLSB), NRR, apprised of any changes to the projected submittal date so that NRC can plan and budget needed resources for the project appropriately.

Tentative Project Schedule

HBRSEP2 License Renewal Submittal (tentative)

Last Quarter 2002

Ram Subbaratnam, Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-261

Enclosures:

1. List of attendees
2. Licensee handout

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J. Zwolinski/S. Black
H. Berkow
R. Correia
E. Dunnington
B. Bonser
C. Grimes
P. T. Kuo
P. Shemanski

ATTENDEE LIST FOR THE MEETING OF JANUARY 16, 2001

<u>NAME</u>	<u>ORGANIZATION</u>
Ram Subbaratnam	NRC/DLPM/NRR
P.T. Kuo	NRC/DRIP/RLSB/NRR
Jan Kozyra	CP&L/License Renewal
Roger Stewart	CP&L/License Renewal
Jack Morris	CP&L/Engineering
Mike Heath	CP&L/License Renewal
Duc Nguyen	NRC/DE/EEIB/NRR
Paul Shemanski	NRC/DE/EEIB/NRR
William M. Denny	AMEC Earth & Environmental

Robinson Nuclear Plant

EQ Data Package Revisions

Resulting From License

Renewal

January 16, 2001



Agenda

- Introductions
- Organization
- Background
- EQ Data Packages Impacted
- Radiation Dose
- Thermal Life

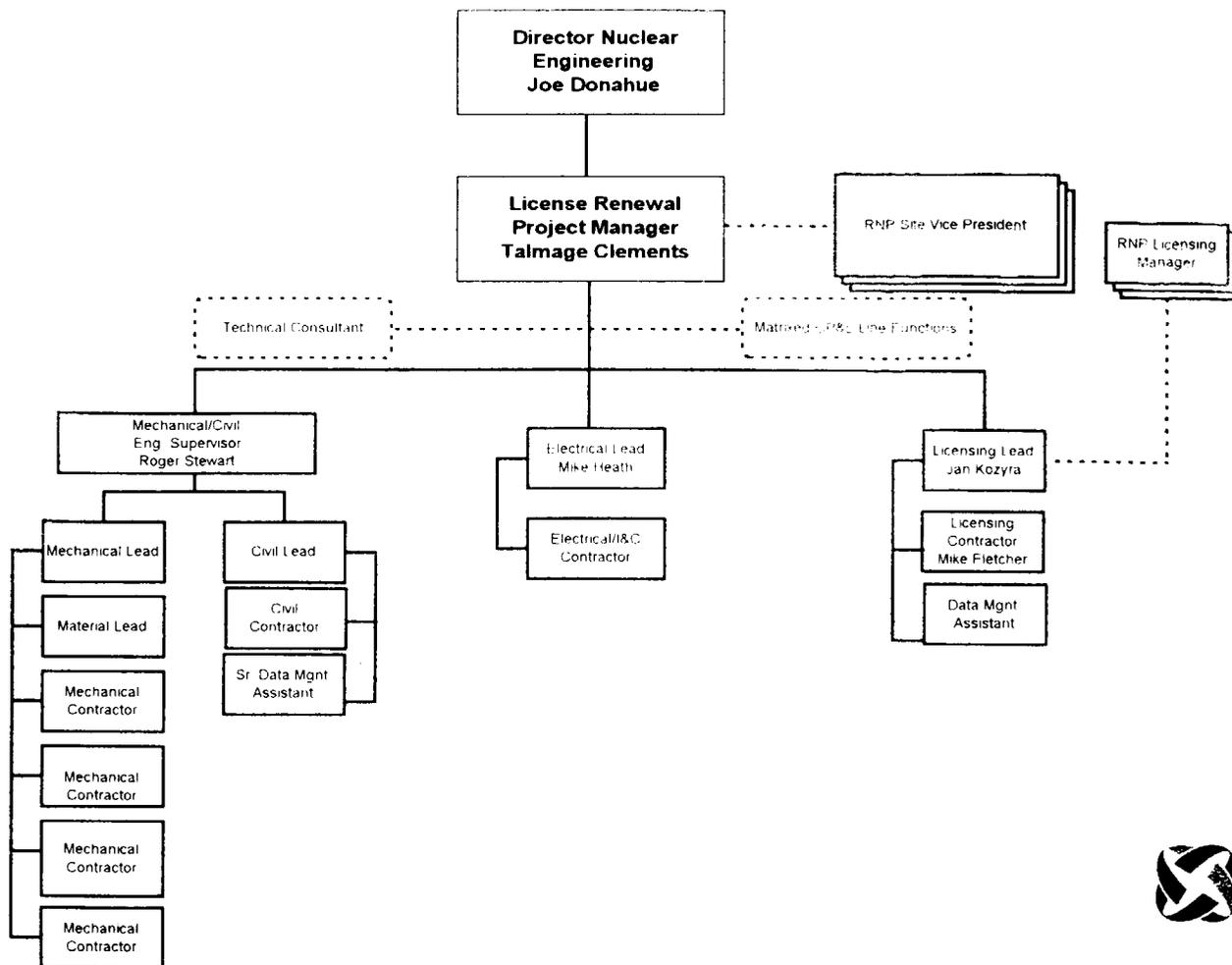


Introductions

- Jack Morris – EQ Engineer
- Mike Heath – License Renewal Engineer and EQ TLAA Coordinator
- William M. Denny – EQ and License Renewal Expert Consultant from AMEC (formerly Ogden)
- Roger Stewart – License Renewal Supervisor
- Jan Kozyra – License Renewal Licensing



Organization



Background

- Westinghouse 3-Loop PWR - NSSS Almost Identical to Turkey Point
- On-Site LR Work Began 1/2000
- Scheduled Application – Last Quarter 2002
- License Expires 7/31/2010
- Actively Supporting Industry LR Efforts
 - ▶ NEI SRP & GALL review
 - ▶ Westinghouse Owner's Group



EQ Data Packages Impacted and Schedule

- All packages with 40 years or greater life
 - ▶ 50 EQ Data Packages (EQDP) impacted
- Equipment with 40 years qualified life installed after 1991 excluded
- Complete by end of 2001



Revision of Radiation Dose

- Current 40 years dose is multiplied by 1.5 to obtain the new 60 years dose
- Total Integrated Dose (TID) = Accident dose + 60 years dose
- The new TID is compared to the total dose used in the referenced test program:
 - ▶ If the test program is bounding, revise the EQDP
 - ▶ If not bounding, review other published sources and revise EQDP, if appropriate, or plan component replacement



Revision of Qualified Thermal Life

If the current qualified thermal life is greater than 40 years but less than 60 years:

- Identify aging exposure (time and temperature) in the referenced test program
- Determine the qualified thermal life demonstrated by testing
 - ▶ Use EQDP activation energy
 - ▶ Use aging exposure from test program



- **Compare calculated life with 60 years pre-accident life**
 - ▶ **If 60 years or greater, revise EQDP**
 - ▶ **If less than 60 years, review published sources to determine if margin is available:**
 - ◆ **Does the activation energy reflect manufacturer's published data or other generally accepted published data**
 - ◆ **Is the "normal" temperature reasonable**
 - ◆ **Does the DBE test profile contain margin substantially in excess of what is required**
 - ▶ **Revise the EQDP, if appropriate, or replace the component prior to the end of life**



Summary

- Approximately 50 EQDPs impacted
- Revisions will rely on existing design, industry testing, manufacturer's data, and other generally accepted published data



Carolina Power & Light Company

cc:

Mr. William D. Johnson
Vice President and Corporate Secretary
Carolina Power & Light Company
Post Office Box 1551
Raleigh, North Carolina 27602

Ms. Karen E. Long
Assistant Attorney General
State of North Carolina
Post Office Box 629
Raleigh, North Carolina 27602

U.S. Nuclear Regulatory Commission
Resident Inspector's Office
H. B. Robinson Steam Electric Plant
2112 Old Camden Road
Hartsville, South Carolina 29550

Mr. T. P. Cleary
Plant General Manager
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant, Unit No. 2
3581 West Entrance Road
Hartsville, SC 29550

Mr. T. D. Walt
Director of Site Operations
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant, Unit No. 2
3581 West Entrance Road
Hartsville, South Carolina 29550

Public Service Commission
State of South Carolina
Post Office Drawer 11649
Columbia, South Carolina 29211

Mr. H. K. Chernoff
Supervisor, Licensing/Regulatory Programs
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant,
Unit No. 2
3581 West Entrance Road
Hartsville, South Carolina 29550

H. B. Robinson Steam Electric Plant,
Unit No. 2

Mr. Mel Fry, Director
N.C. Department of Environment
and Natural Resources
Division of Radiation Protection
3825 Barrett Dr.
Raleigh, North Carolina 27609-7721

Mr. Robert P. Gruber
Executive Director
Public Staff - NCUC
Post Office Box 29520
Raleigh, North Carolina 27626-0520

Mr. Virgil R. Autry, Director
South Carolina Department of Health
Bureau of Land & Waste Management
Division of Radioactive Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Mr. Terry C. Morton
Manager
Performance Evaluation and
Regulatory Affairs CPB 7
Carolina Power & Light Company
Post Office Box 1551
Raleigh, North Carolina 27602-1551

Mr. John H. O'Neill, Jr.
Shaw, Pittman, Potts & Trowbridge
2300 N Street, NW.
Washington, DC 20037-1128

Mr. B. L. Fletcher III
Manager - Regulatory Affairs
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant,
Unit No. 2
3581 West Entrance Road
Hartsville, South Carolina 29550-0790

Mr. J. W. Moyer, Vice President
Carolina Power & Light Company
H. B. Robinsin Steam Electric Plant,
Unit 2
3581 West Entrance Road
Hartsville, South Carolina 29550-0790