

MAR 23 1994

Docket Nos. 50-413, 50-414  
License Nos. NPF-35, NPF-52

Duke Power Company  
ATTN: Mr. D. L. Rehn  
Vice President  
Catawba Site  
4800 Concord Road  
York, SC 29745-9635

Gentlemen:

SUBJECT: MANAGEMENT MEETING SUMMARY - CATAWBA UNITS 1 AND 2

This letter refers to the Management Meeting held at your request on March 16, 1994, in the NRC Region II Office. Items discussed included: operation of Unit 1 on December 12-14, 1993, with one of the two required residual heat removal pumps in a degraded condition while the reactor coolant system was in reduced inventory; Catawba's vibration monitoring program; and the Catawba Shutdown Risk Program.

The presentation provided the NRC staff with an understanding of the circumstances and the safety significant associated with the December 1993 problem and also an understanding of the Shutdown Risk Program at Catawba. A list of attendees, meeting summary and a copy of your handout are enclosed.

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

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

Sincerely,

*Orig signed by Jon R. Johnson*

Jon R. Johnson, Acting Director  
Division of Reactor Projects

Enclosures:

1. List of Attendees
2. Meeting Summary
3. Duke's Presentation Handouts

cc w/encls: See page 2

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PDR ADOCK 05000413  
P PDR

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Duke Power Company

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cc w/encls:

Mr. Z. L. Taylor  
Compliance  
Duke Power Company  
4800 Concord Road  
York, SC 29745-9635

A. V. Carr, Esq.  
422 South Church Street  
Charlotte, NC 28242-0001

J. Michael McGarry, III, Esq.  
Winston and Strawn  
1400 L Street, NW  
Washington, D. C. 20005

North Carolina MPA-1  
Suite 600  
P. O. Box 29513  
Raleigh, NC 27626-0513

Max Batavia, Chief  
Bureau of Radiological Health  
S. C. Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

Richard P. Wilson, Esq.  
Assistant Attorney General  
S. C. Attorney General's Office  
P. O. Box 11549  
Columbia, SC 29211

Michael Hirsch  
Federal Emergency Management Agency  
500 C Street, Sw, Room 840  
Washington, D. C. 20472

North Carolina Electric  
Membership Corporation  
P. O. Box 27306  
Raleigh, NC 27611

Karen E. Long  
Assistant Attorney General  
N. C. Department of Justice  
P. O. Box 629  
Raleigh, NC 27602

cc w/encls: See page 3

Duke Power Company

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cc w/encls: Continued  
Saluda River Electric  
Cooperative, Inc.  
P. O. Box 929  
Laurens, SC 29360

T. Richard Puryear  
Nuclear Technical Services Manager  
Carolinas District  
Westinghouse Electric Corporation  
2709 Water Ridge Parkway, Ste. 430  
Charlotte, NC 28217

County Manager of York County  
York County Courthouse  
York, SC 29745

Piedmont Municipal Power Agency  
121 Village Drive  
Greer, SC 29651

G. A. Copp  
Licensing - EC050  
Duke Power Company  
P. O. Box 1006  
Charlotte, NC 28201-1006

Paul Pappas  
Director Nuclear Operations  
Catawba Nuclear Station  
4800 Concord Road  
York, SC 29745

Duke Power Company

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bcc w/encls:  
R. E. Martin, NRR  
W. Miller, RII  
M. S. Lesser, RII  
Document Control Desk

NRC Resident Inspector  
U.S. Nuclear Regulatory Commission  
Route 2, Box 179-N  
York, SC 29745

RII:DRP  
*W Miller*  
W Miller  
3/22/94

RII:DRP  
*M Lesser*  
M Lesser  
3/22/94

RII:DRP  
*J Jaudon*  
J Jaudon  
3/24/94

RII:DRS  
*A G Gibson*  
A G Gibson  
3/22/94

ENCLOSURE 1

**LIST OF ATTENDEES**

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
MANAGEMENT MEETING  
MARCH 16, 1994

U. S. NUCLEAR REGULATORY COMMISSION

S. D. Ebnetter, Regional Administrator, Region II (RII)  
A. F. Gibson, Director, Division of Reactor Safety (DRS), RII  
J. R. Johnson, Acting Director, Division of Reactor Projects (DRP), RII  
M. S. Lesser, Acting Chief, Reactor Projects Branch 3, DRP, RII  
J. L. Shackelford, Reactor Inspector, DRS, RII  
R. J. Freudenberger, Senior Resident Inspector, Catawba, DRP, RII  
W. H. Miller, Jr., Project Engineer, DRP, RII

DUKE POWER COMPANY

D. E. Rehn, Vice President, Catawba Nuclear Site (CNS)  
H. B. Barron, Manager, Nuclear Assessment, General Office  
W. R. McCollum, Station Manager, CNS  
J. S. Forbes, Engineering Manager, CNS  
Z. L. Taylor, Compliance Manager, CNS

ENCLOSURE 2

MANAGEMENT MEETING SUMMARY

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
MANAGEMENT MEETING  
MARCH 16, 1994

On March 16, 1994, representatives from Duke Power Company (DPC) met with the NRC in the Region II Office in Atlanta, Georgia to discuss the operation of Unit 1 on December 12-14, 1993, with one of the two required residual heat removal pumps in a degraded condition while the reactor coolant system was in reduced inventory. The Catawba Shutdown Risk Program was also discussed.

Opening remarks, concerning the purpose of the meeting, was presented by Mr. J. R. Johnson, Acting Director, Division of Reactor Projects. An introduction to DPC's presentation was given by Mr. D. E. Rehn, Vice President, Catawba Nuclear Site (CNS). A detailed presentation, including a description of the residual heat removal pump, Catawba's vibration monitoring program, chronological description of activities associated with the event, lessons learned and corrective actions, was given by Mr. J. S. Forbes, Engineering Manager, CNS. A description of the Catawba Shutdown Risk Program was given by Mr. W. R. McCollum, Station Manager. Enclosure 3 is a copy of DPC's presentation.

Following an open discussion period, the NRC closed the meeting by thanking DPC for their presentation and stating that the presentation had served to enhance the NRC's understanding of the event and of Catawba's Vibration Monitoring and Shutdown Risk Programs.

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
RESIDUAL HEAT REMOVAL PUMP VIBRATION

I. INTRODUCTION

- Brief overview of main points to be covered in presentation

II. BACKGROUND

- Background information on the subject RHR pump and the CNS vibration monitoring program
- Discussion on the CNS Shutdown Risk Program

III. TIMELINE

- Chronological description of activities focusing on critical points in the sequence

IV. LESSONS LEARNED

- Discussion of areas where weaknesses were identified
- Corrective actions to prevent recurrence
- Discussion of positive aspects

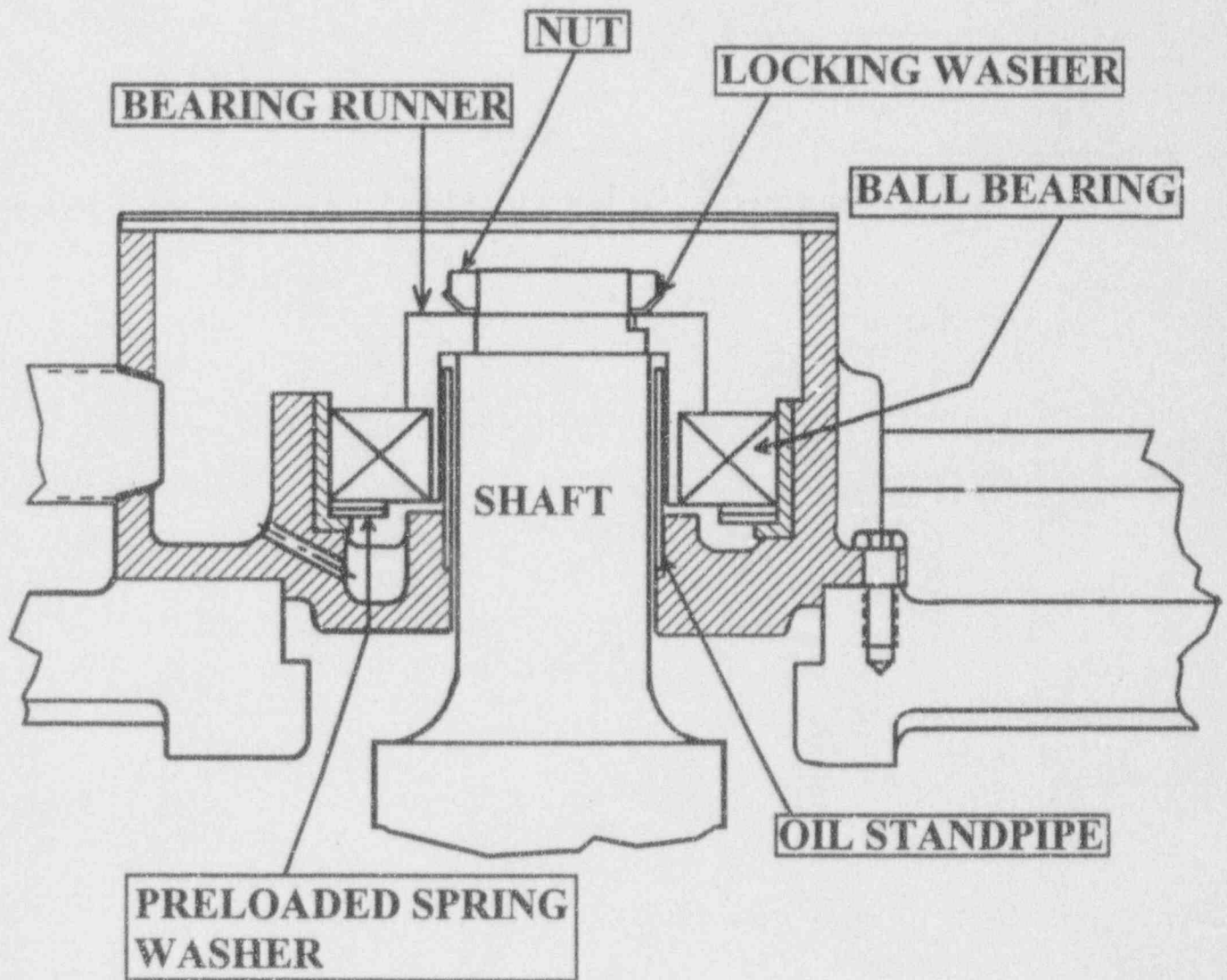
V. SUMMARY

- Summary of key points





**RESIDUAL HEAT REMOVAL PUMP MOTOR  
UPPER BEARING ASSEMBLY**



**FOR INFORMATION ONLY  
(NOT TO SCALE)**

**Estimated Core Damage Frequency  
Comparison for the 1A-ND Pump Inoperability  
1 ND Pump Operable and 2 ND Pumps Operable**

