

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING APPEAL BOARD

In the Matter of	}	
LOUISIANA POWER AND LIGHT COMPANY	}	Docket No. 50-382
(Waterford Steam Electric Station,	}	
Unit 3)	}	

AFFIDAVIT OF JOHN MA AND RAMAN PICHUMANI

We, John Ma and Raman Pichumani, being duly sworn, do depose and state:

1. We are employed by the United States Nuclear Regulatory Commission in the Structural and Geotechnical Engineering Branch, Division of Engineering, Office of Nuclear Reactor Regulation. Dr. Ma is a structural engineer; Dr. Pichumani is a geotechnical engineer. We have been assigned lead responsibility in the NRC Staff's review related to the discovery of cracking and water seepage in the concrete basemat at the Waterford Steam Electric Station, Unit 3.

2. The Staff's review of the cracking and water seepage issues is ongoing at this time. We have received and reviewed the submittal by Louisiana Power & Light Company ("Applicant") to the Appeal Board, dated September 30, 1983, as well as the engineering report attached to that submittal which was prepared by Harstead Engineering Associates, Inc. These materials are voluminous in nature and address several distinct issues. Further review of these materials by the Staff will be required.

3. In a letter submitted by the Applicant to Richard C. DeYoung, Director of the Office of Inspection and Enforcement, dated September 29, 1983 (a copy of which is attached), the Applicant enclosed a report prepared

by its Independent Safety Engineering Group (ISEG), which addresses various issues including these matters. In its letter, the Applicant observed as follows:

[T]he Harstead Engineering Associates (HEA) report is their initial report covering an assessment of the concrete cracking and water seepage problems. A second report covering the design adequacy of the basemat is scheduled to be issued by HEA on October 15, 1983. The delay in issuing this section of the report is due to HEA performing independent calculations on the basemat design.

The Staff anticipates that the second report to be prepared by Harstead Engineering Associates, referred to in Applicant's letter, may contain information relevant to our review of these matters.

4. In order for the Staff to determine whether the discovery of water seepage and concrete cracking in the basemat at Waterford Unit 3 is significant, further review of the materials referred to above will be required. In addition, we plan to meet with the Applicant and its consultants to discuss these matters further, and to confer with members of the staff of the Office of Inspection and Enforcement and NRC Region IV.

5. It is possible, as Applicants contend, that these matters do not present a significant issue. At this time, however, the Staff's review has not advanced to a stage at which such a determination can reliably be made. Accordingly, an additional period of time is required for the Staff to review these matters before we can assess their significance.

6. We shall endeavor to use our best efforts to complete our review expeditiously so that the Staff's assessment of the significance

of these matters may be submitted promptly to the Appeal Board. At this time, we believe that our expedited review will be completed by November 15, 1983; our conclusions could be submitted to the Appeal Board shortly thereafter.

John S. Ma
John Ma

Raman Pichumani
Raman Pichumani

Subscribed and sworn to before me
this 7th day of October, 1983

[Signature]
Notary Public

My Commission Expires: 7/1/86





LOUISIANA
POWER & LIGHT

317 BARONNE STREET • P.O. BOX 60340
NEW ORLEANS, LOUISIANA 70160 • (504) 595-2204

September 29, 1983

J.M. CAIN
President and
Chief Executive Officer

W3P83-3289

Richard C. DeYoung, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: Waterford 3 SES
Docket No. 50-382

REFERENCE: NRC Letter Dated August 4, 1983

Dear Mr. DeYoung:

Enclosed for your review is the report prepared by LP&L's Independent Safety Engineering Group (ISEG) covering the action plan outlined in our submittal of September 1, 1983.

I would like to point out that the Harstead Engineering Associates (HEA) report is their initial report covering an assessment of the concrete cracking and water seepage problems. A second report covering the design adequacy of the basemat is scheduled to be issued by HEA on October 15, 1983. The delay in issuing this section of the report is due to HEA performing independent calculations on the basemat design.

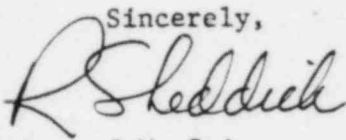
The LP&L Safety Review Committee (SRC) has reviewed the approach taken by ISEG for addressing the concerns of your letter of August 4, 1983; and agrees that the approach represents a reasonable method to address the concerns. In making this judgment, the SRC has reviewed the enclosed report and discussed it with members of ISEG.

As you will recall from our meeting of August 25, 1983, you suggested that LP&L look at as much as possible in addressing the issues contained in your letter of August 4, 1983. The ISEG action plan submitted to you on September 1, 1983 was broader in scope than we had proposed in the meeting. In addition to the action plan, ISEG walked down four safety related systems, provided an evaluation of the American Bridge issue, and increased the LP&L Q.A. system status reviews by two.

Richard C. DeYoung
W3P83-3289

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Please call if you wish to discuss the report, or if you have any questions.

Sincerely,

for J.M. Cain

JMC/RFB/pp

Enclosure

cc: E. Blake, W.M. Stevenson, J.T. Collins, G.L. Constable