

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

DOCKETED
USNRC

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD '84 MAY 21 AIO:15

In the Matter of)
)
CAROLINA POWER & LIGHT COMPANY)
AND NORTH CAROLINA EASTERN) Docket No. 50-400 OL
MUNICIPAL POWER AGENCY)

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

(Shearon Harris Nuclear Power Plant,)
Unit 1

AFFIDAVIT OF DAVID C. MCCARTHY

County of Wake)
) SS:
State of North Carolina

David C. McCarthy, being duly sworn according to law, deposes and says:

1. I am employed by Carolina Power & Light Company ("CP&L") as a Project Engineer in the Harris Plant Engineering Section. I am responsible for administering the Nuclear Steam Supply System Contract and for licensing and regulatory matters related to engineering at SHNPP. My business address is Shearon Harris Nuclear Power Plant, Post Office Box 101, New Hill, North Carolina 27562. A statement of my background and qualifications is affixed hereto as Attachment A. I have personal knowledge of the matters stated herein and believe them to be true and correct.

2. This affidavit is made in support of Applicants' Motion for Summary Disposition of Eddleman Contention 45.

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3. The purpose of this affidavit is to confirm that the sloping design of the steam supply line to the auxiliary feedwater turbine referred to in Paragraph VI.2 of Mr. Dean Shah's affidavit will be verified by Applicants prior to fuel loading at SHNPP.
4. As stated in Paragraph VI.2 of Mr. Shah's affidavit, the steam supply line to the auxiliary feedwater turbine has been designed to slope in the direction of the steam flow.
5. Applicants will verify that this piping is in fact sloped in accordance with design specifications through the following methods.
6. The SHNPP site has control elevation points based upon survey points established by the United States Department of Interior.
7. Plant structures have been constructed in accordance with design drawings which include design elevations.
8. Subsequent to construction of plant structures, control survey points are established within the structures for the purpose of installing components, piping, hangers, conduit and the like.
9. Piping, including the steam supply line, is installed in accordance with design drawings.
10. Elevation and slope are included in the design input and are reflected on design drawings.
11. Subsequent to installation an "as-constructed" reconciliation of ASME Code Section III Class 1, 2, and 3 piping, which includes the steam supply line, will be performed in accordance with the requirements of the ASME Code. [Winter '76 Edition]
12. The Harris Plant Construction Department has issued a formal procedure to direct the reconciliation effort. This procedure is

currently being revised to specifically require verification that this slope of the steam supply line is in accordance with design requirements.

13. Should any deviation from design be detected, the installed system will be modified to make it comply with design requirements.

David C. McCarthy
David C. McCarthy

Subscribed and sworn to
before me this 25th
day of May, 1984.

Marilyn V. Penn
Notary Public



My Commission Expires: 10/1/84

DAVID C. McCARTHY

Project Engineer

BIRTH DATE: August 27, 1954

I. EDUCATION

- A. B.S. Degree in Nuclear Engineering from the University of Virginia, Charlottesville, Virginia - 1976

II. EXPERIENCE

- A. Summers 1973 and 1974

- 1. Buncher Rail Car Company, Inc., Lynchburg, Virginia
 - a. Demolition and construction worker

- B. Summer 1975

- 1. Sims Wholesale Distributing Company, Inc., Lynchburg, Virginia
 - a. Sales Assistant

- C. June 1976 to August 1979

- 1. Duke Power Company (Oconee Nuclear Station and McGuire Nuclear Station)
 - a. Nuclear Engineer

- D. August 1979 to present

- 1. Carolina Power & Light Company, Raleigh, North Carolina
 - a. Employed as Engineer in the Engineering Pool Section of the Power Plant Engineering Department
 - b. December 1, 1979 - Transferred as Engineer to the Harris Plant Engineering Section of the Nuclear Power Plant Engineering Department.
 - c. July 11, 1981 - Promoted to Senior Engineer in the Harris Plant Engineering Section of the Nuclear Plant Engineering Department, located at New Hill, NC.

- d. June 25, 1983 - Promoted to Project Engineer in the Mechanical Unit, Harris Plant Engineering Section, Nuclear Plant Engineering Department, located at New Hill, NC.

III. PROFESSIONAL SOCIETIES

- A. American Nuclear Society