

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of	)	
WISCONSIN ELECTRIC POWER COMPANY	)	Docket Nos. 50-266
(Point Beach Nuclear Plant,	)	50-301
Units 1 and 2)	)	(Repair to Steam Generator Tubes)

AFFIDAVIT OF EMMETT L. MURPHY

I, Emmett L. Murphy, being duly sworn, depose and state:

1. I am presently assigned as a Materials Engineer to the In-service Inspection Section of the Materials Engineering Branch, Division of Engineering, in the Office of Nuclear Reactor Regulation.

2. The purpose of this affidavit is to address the issues raised in Contention 3(f) by Wisconsin's Environmental Decade ("Decade") in its July 21, 1982 Motion Concerning Litigable Issues.

Contention 3(f)

The process of sleeving steam generator tubes increases the probability of tube failures generally, and, of even greater significance, it substantially increases the risk of failures in the unconstrained free standing region of the steam generator specifically in, among other things, the following manner:

(f) Sleeves in Corroded Tubes. If the expansion at the upper joint of the sleeve is located where the tube is corroded, the expansion process may weaken the tube such that it will fail during operating or accident conditions and create a leakage pathway.

3. The cited "Basis" for this contention is taken from the Staff's August 6, 1982 Answer to Decade's Interrogatories dated July 21, 1982, which I prepared, and is not in dispute. Specifically, in regard to San Onofre 1, I stated:

An unreported number of tubes were plugged as a result of the expansion joints being formed outside the specified locations or as a result of the expansions being formed at a location where IGA was present on the outer tube. These unacceptable conditions were identified as a result of the baseline ECT examination.

4. Tubes found to be unacceptable at San Onofre during the post-installation baseline eddy current inspection were plugged.

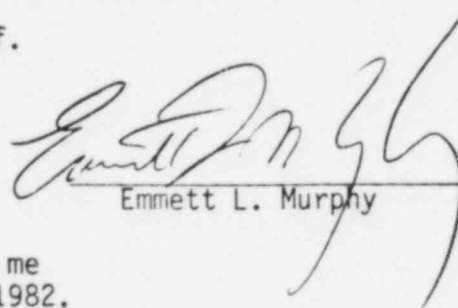
5. At Point Beach, the tubes will be subjected to a pre-sleeving eddy current inspection to ensure that the joint will not be formed where corrosion is indicated to exist on the tube.

6. In addition, a baseline eddy current test will be performed on the sleeves following sleeve installation. If corrosion similar to that found to exist at San Onofre exists on the Point Beach joints, it will be detected by the eddy current test, and tubes found unacceptable will be plugged.

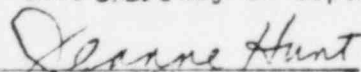
7. Even should the tube be corroded at the joint, the likely consequence, based on operating experience, would be a small leak.

8. The stringent Technical Specification limit on primary to secondary leakage ensures that the plant will be shutdown for appropriate corrective action before degradation could potentially rupture a tube during normal operating or postulated accident conditions.

I certify that the foregoing statements are true and correct to the best of my knowledge and belief.

  
Emmett L. Murphy

Subscribed and sworn to before me  
this 3rd day of September, 1982.

  
Notary Public  
My Commission expires: 7/1/86

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CERTIFICATE OF SERVICE

I hereby certify that copies of "NRC STAFF RESPONSE TO DECADE'S AMENDMENT TO MOTION CONCERNING LITIGABLE ISSUES," "STATEMENT OF MATERIAL FACTS AS TO WHICH THERE IS NO GENUINE ISSUE TO BE HEARD," AND "AFFIDAVIT OF EMMETT L. MURPHY," in the above captioned proceeding have been served on the following by deposit in the United States mail, first class or, as indicated by an asterisk, through deposit in the Nuclear Regulatory Commission's internal mail system, this 3rd day of September, 1982.

Peter B. Bloch, Chairman\*  
Administrative Judge  
Atomic Safety and Licensing Board  
U.S. Nuclear Regulatory Commission  
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Washington, DC 20555

Dr. Jerry R. Kline\*  
Administrative Judge  
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U.S. Nuclear Regulatory Commission  
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Atomic Safety and Licensing Appeal  
Panel (5)\*  
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