

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)	Docket Nos. 50-295
)	50-304
COMMONWEALTH EDISON COMPANY)	(Proposed Amendment to Facilities
)	Operating License No. DPR-39 and
(Zion Station, Unit 1 and 2))	DPR-48 to Permit Storage Pool
)	Modification)

AFFIDAVIT OF ALFRED TABOADA

I, Alfred Taboada, being duly sworn, do state as follows:

I am employed as a Senior Materials Engineer in the Systems and Components Standard Branch, Office of Standards Development, United States Nuclear Regulatory Commission, on assignment to the Engineering Branch, Division of Operating Reactors, Office of Nuclear Reactor Regulation, USNRC. A statement of my professional qualifications is attached to this affidavit.

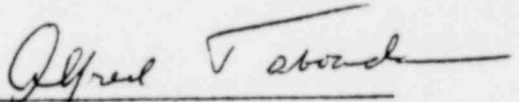
I have reviewed the Commonwealth Edison Company response, dated November 16, 1979, to the Board's Memorandum and Order of September 14, 1979, and the affidavit of Dr. John Weeks. I agree with the general conclusions of Dr. Weeks that, while some Intergranular Stress Corrosion Cracking may not be precluded somewhere in the Zion Spent Fuel Pool, it is highly unlikely to occur in a widespread fashion, and, if it does, it should result in small cracks and minor leaks which would not significantly degrade the function or structural integrity of the fuel storage racks, the fuel pool liner or the spent fuel pool piping systems. This opinion is predicated on the assumptions that (1) the Type 304 stainless steel material is not significantly sensitized, in view of the

1599 259

7912180

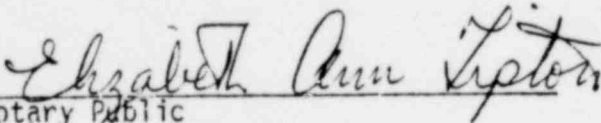
186

relatively low carbon content and the measurements made by Mr. W. L. Clarke, Jr., (2) water will be circulating and the water chemistry will be maintained at the low chloride and fluoride levels, and, (3) the levels of temperature and stress are, in my opinion, unfavorable for significant stress corrosion cracking to occur.



Alfred Taboada

Subscribed and sworn to before me
this 7th day of December, 1979.



Notary Public

My Commission expires: July 1, 1982

1599 260

PROFESSIONAL QUALIFICATIONS
OF
ALFRED TABOADA

My name is Alfred Taboada. I am currently employed by the U. S. Nuclear Regulatory Commission as a Senior Materials Engineer on assignment to the Engineering Branch, Division of Operating Reactors, Office of Nuclear Reactor Regulations.

My duties and responsibilities include the review and evaluation of the intergranular stress corrosion cracking problems at Three Mile Island Unit 1 and other PWR's.

I am a member of the Pipe Crack Study Group reviewing the problem in BWR's and was one of the authors of the NUREG reports issued by this group. I also co-authored the revision to NUREG-0313 which presents guidelines for reducing susceptibility to intergranular stress corrosion cracking.

As a member of the Office of Standards Development, I was responsible for preparing and issuance of Reg. Guide 1.44 "Control of the Use of Sensitized Stainless Steel" which deals with the problem of intergranular stress corrosion cracking.

I have worked as a materials engineer and researcher for approximately 25 years at the USNRC, USAEC and the Oak Ridge National Laboratory.

I received a Bachelor degree in Chemical Engineering from Newark College of Engineering and a Masters of Metallurgical Engineering from Rensselaer Polytechnic Institute.

I am a member of Subgroup on Materials of the Nuclear Section III of the ASME Boiler and Pressure Vessel Code and member of the executive committee of the ASTM Committee E-10 on Nuclear Applications.

1599 261

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)
COMMONWEALTH EDISON COMPANY) Docket Nos. 50-295
(Zion Station, Units 1 and 2)) 50-304

CERTIFICATE OF SERVICE

I hereby certify that copies of "NRC STAFF'S RESPONSE TO MEMORANDUM AND ORDER RELATING TO INTERGRANULAR STRESS CORROSION CRACKING IN STAINLESS STEEL TYPE 304 COMPONENTS OF SPENT FUEL STORAGE POOL" 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 7th day of December, 1979.

John F. Wolf, Esq., Chairman
3409 Shepherd Street
Chevy Chase, Maryland 20015

Atomic Safety and Licensing Board
Panel
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Linda W. Little
5000 Hermitage Drive
Raleigh, North Carolina 27612

Atomic Safety and Licensing Appeal
Board Panel
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Forrest J. Remick
305 E. Hamilton Avenue
State College, Pennsylvania 16801


Docketing and Service Section
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Philip P. Steptoe, Esq.
Isham, Lincoln and Beale
One First National Plaza
Chicago, Illinois 60603

Mr. Gregory Minor
MHB Associates
1723 Hamilton Avenue, Suite K
San Jose, California 95125

Susan N. Sekuler, Esq.
Assistant Attorney General
Environmental Control Division
188 West Randolph Street, Suite 2315
Chicago, Illinois 60601

Mr. Rick Konter
617 Piper Lane
Lake Villa, Illinois 60046


Richard J. Goddard
Counsel for NRC Staff

1599 262