

SNRG REGION II
ATLANTA, GEORGIA

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August 2, 1982
L-82-322

Mr. James P. O'Reilly
Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

Re: St. Lucie Unit 1
Docket No. 50-335
IE Bulletin 82-02

Florida Power & Light has reviewed IE Bulletin 82-02 (Degradation of Threaded Fasteners in the Reactor Coolant Pressure Boundary of PWR Plants) as it pertains to St. Lucie Unit 1.

Two St. Lucie Unit #1 reactor coolant pressure boundary bolted closures have experienced leakage of significance.

On April 6, 1977, during a shutdown to resolve secondary plant problems, a routine inspection of the Reactor Coolant System showed evidence of leakage from the "A" steam generator manway. The twenty manway retaining studs and nuts were inspected and thirteen of the studs were found to have surface corrosion due to attack from boric acid. The deepest indication on load bearing portions of the stud was 1/16 inch on a 1-1/2 inch stud. It was felt that the studs were not degraded sufficiently to create any significant risk of failure. However, it was deemed prudent to replace the studs and this was done.

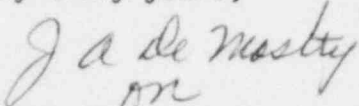
On January 23, 1978, investigation of an increase in containment gaseous activity led to the discovery of a minor leak at the pressurizer manway. The twenty manway retaining studs and nuts were inspected and five of the studs were found to have unacceptable surface corrosion due to attack from boric acid. The deepest penetration of the studs was approximately 1/8 inch on a 1-1/2 inch stud. The five damaged studs were replaced with new studs.

The two fastener lubricants used at St. Lucie are Neolube and Fel-Pro 5000. Neolube is used on stainless steel fasteners and Fel-Pro 5000 on carbon steel fasteners. Neolube consists of colloidal graphite in isopropanol and is certified to MIL-L-24131B. Fel-Pro 5000 is a proprietary nickel-graphite mixture. Fel-Pro 5000 is utilized on both the pressurizer and the steam generator manway fasteners.

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Injection sealant materials have not been used in any reactor coolant pressure boundary bolted closure at the St. Lucie Plant.

Very truly yours,

A handwritten signature in cursive script that reads "Robert E. Uhrig".

Robert E. Uhrig
Vice President
Advanced Systems and Technology

REU/PLP/mbd

cc: Harold F. Reis, Esquire

STATE OF FLORIDA)
)
COUNTY OF DADE)

ss.

J. A. DeMastry , being first duly sworn, deposes and says:

That he is Manager, Nuclear Licensing of Florida Power &
Light Company, the herein;

That he has executed the foregoing document; that the state-
ments made in this said document are true and correct to the
best of his knowledge, information, and belief, and that he is
authorized to execute the document on behalf of said

J. A. DeMastry
J. A. DeMastry

Subscribed and sworn to before me this

7 day of August, 1982

Cheryl L. Fredrick
NOTARY PUBLIC in and for the County of Dade,
State of Florida

My commission expires:
Notary Public, State of Florida at Large
My Commission Expires October 30, 1983
Banded thru Meynard Bonding Agency