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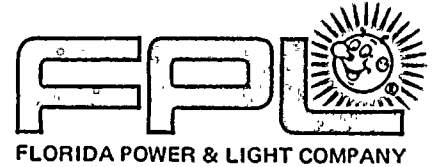
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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
 AUTH. NAME AUTHOR AFFILIATION
 WOODY, C. O. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 THADANI, A. C. PWR Project Directorate 8

SUBJECT: Forwards response to NRC 860813 request for addl info re matl properties for fracture toughness requirements for protection against pressurized thermal shock events.

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OCTOBER 02 1986

L-86-394

Office of Nuclear Reactor Regulation
Attention: Mr. Ashok C. Thadani, Director
PWR Project Directorate #8
Division of PWR Licensing-B
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Thadani:

Re: St. Lucie Unit I
Docket No. 50-335
Protection Against Pressurized Thermal Shock Event

By letter L-86-20, dated January 23, 1986, Florida Power & Light Company (FPL) provided information relating to fracture toughness requirements for protection against pressurized thermal shock events, 10 CFR 50.61, at St. Lucie Unit I. In its letter dated August 13, 1986 (E. G. Tourigny to C. O. Woody), the NRC staff identified additional information required to continue its review of this topic. The attached information addresses the staff's August 13, 1986 request for additional information.

Should you or your staff have any questions on this information, please contact us.

Very truly yours,

C. O. Woody
for C. O. Woody
Group Vice President
Nuclear Energy

COW/EJW/gp

Attachment

cc: Dr. J. Nelson Grace, Region II, USNRC
Harold F. Reis, Esquire

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REQUEST FOR ADDITIONAL INFORMATION BY
THE OFFICE OF NUCLEAR REACTOR REGULATION
ST. LUCIE UNIT I
MATERIAL PROPERTIES FOR FRACTURE TOUGHNESS REQUIREMENTS
FOR PROTECTION AGAINST PRESSURIZED THERMAL SHOCK EVENTS
10 CFR 50.61
TAC NO. 59985

The controlling beltline material from the standpoint of PTS susceptibility was identified to be the lower shell longitudinal weld seams 3-203A, B, and C (weld wire heat No. 34B009), and the copper and nickel contents were reported to be 0.30% copper and 0.64% nickel. Yet, Table 2 of the submittal lists 0.12% copper and 0.20% nickel for weld wire heat number 34B009 for the intermediate shell longitudinal seams. Furthermore, neither of these sets of values are consistent with measurements reported for this weld wire where it appeared in three other vessels. In those three cases the copper content was reported to be about 0.20% and the nickel content was 0.80% in one case and 1.00% in the others. These welds are described as "RACO 3 + Ni 200." Please resolve these discrepancies and justify your conclusion by describing the underlying data base. Specific questions are:

General Response:

The weld wire heat number, 34B009, reported in FPL letter L-86-20, dated January 23, 1986, is incorrect. The correct number is 305242. The Cu and Ni content reported in that submittal are the correct values. The weld composition was verified with Combustion Engineering, the NSSS supplier. The discrepancies between the St. Lucie composition of weld 34B009 and that reported for other vessels cannot be explained by FPL.

1. Were weld seams 3-203 made with Ni 200 added?

Response:

No, weld seams 3-203 were not made with Ni 200 added.

2. We assume the manual shielded metal electrode was used only superficially and does not affect the reported chemistry. If this is not correct, please explain.

Response:

That is correct. The manual shielded metal electrode was used only superficially and does not affect the reported chemistry.

3. Are the reported copper and nickel values single measurements or averages? If they are averages, please give the individual values also.

Response:

The reported copper and nickel values are single measurements.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5800 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637
TEL: 773-936-3700

Dear Mr. [Name]:
I have received your letter of [Date] regarding [Subject].
The information you provided is being reviewed.
I will contact you again once a decision has been reached.
Thank you for your patience.

Sincerely,
[Name]

[Name]
[Title]
[Department]
[University]

[Name]
[Title]
[Department]

[Name]
[Title]
[Department]

[Name]

[Name]
[Title]
[Department]

[Name]
[Title]
[Department]

[Name]

[Name]
[Title]
[Department]

4. Describe the welds from which the individual values were taken (weld procedure qualification welds, surveillance welds, actual vessel weld trim rings or cutouts, etc.).

Response:

The value was taken from a weld qualification sample. However, the filler metal was from heat number 305424 with an as welded composition of 0.30% Cu and 0.64% Ni. The heat number and composition is stated in the Surveillance Program.

The first part of the report is devoted to a general survey of the situation in the country. It is followed by a detailed analysis of the economic and social conditions. The report concludes with a series of recommendations for the government and the people.

Conclusion

The author concludes that the country is in a state of economic and social crisis. It is necessary to take immediate action to address these problems. The author recommends that the government should implement a series of reforms to improve the economy and the social conditions. The author also recommends that the people should take action to improve their own lives.