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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
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 UHRIG, R.E. Florida Power & Light Co.
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 EISENHUT, D.G. Division of Licensing

SUBJECT: Advises of plans to initiate Cycle 6 operation in early May 1983, w/84 new Exxon assemblies & 133 previously irradiated C-E assemblies. List of documents describing fuel & methodology used by Exxon for safety analyses encl.

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1. Introduction

2. Methodology

3. Results

4. Discussion

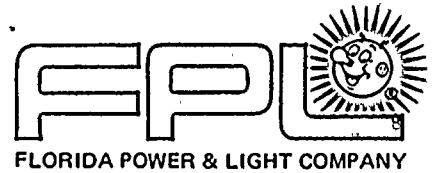
5. Conclusion

6. References

7. Appendix

8. Acknowledgements

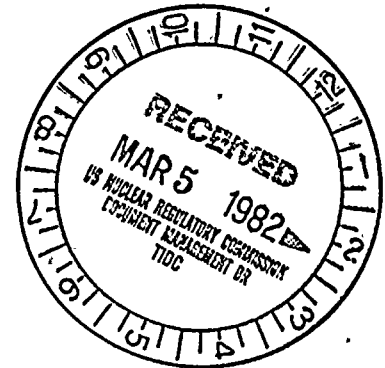
9. Contact Information



February 26, 1982

L-82-67

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555



Dear Mr. Eisenhut:

RE: St. Lucie Unit 1; Docket No. 50-335
Use of Exxon Nuclear Fuel in Cycle 6

In early May 1983 we plan to initiate Cycle 6 operation with 84 new assemblies provided by the Exxon Nuclear Company (ENC) and 133 previously irradiated assemblies provided by Combustion Engineering. Safety analyses and fuel management services for Cycle 6 will be performed by ENC.

Documentation describing the fuel and the methodology used by ENC in providing the safety analyses and fuel management services are listed in the attachment to this letter. The status in regard to regulatory action needed for St. Lucie Unit 1 Cycle 6 is also included in the listing. Those documents which are not yet approved by the NRC were discussed with members of the NRC staff during our meeting of January 13, 1982 in Bethesda. We request that you schedule your reviews to permit approval of all these reports on or near the indicated schedule. We do not expect to identify any unreviewed safety questions from the use of the ENC fuel or from the Cycle 6 analysis performed by ENC. Thus, for Cycle 6 we plan to reload and resume operation of the plant not requesting your prior approval in accordance with the provisions of 10CFR 50.59.

Please contact us if you have any questions or comments regarding this matter.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems and Training

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cc: Mr. J. P. O'Reilly, Region II
Harold F. Reis, Esquire

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**DOCUMENTS DESCRIBING EXXON NUCLEAR
DESIGN AND ANALYSIS METHODOLOGY
To be Used for St. Lucie Unit 1 Cycle 6**

<u>DOCUMENT NUMBER</u>	<u>TITLE</u>	<u>DATES</u>	
		<u>SUBMITTED TO NRC</u>	<u>APPROVAL NEEDED FOR CYCLE 6</u>
XN-75-27, Supp. 1&2	Exxon Nuclear Neutronic Design for Pressurized Water Reactors		Approved
XN-NF-507	ENC Setpoint Methodology for C.E. Reactors		Approved for Fort Calhoun
XN-75-48	Definition and Justification of Exxon Nuclear Company DNB Correla- tion for PWR's		Approved for Previously Licensed PWR's
XN-74-5, Rev.1	Description of the Exxon Nuclear Plant Transient Simulation Model for Pressurized Water Reactors (PTSPWR)		Approved for Previously Licensed PWR's
XN-209	Densification Effects on Exxon Nuclear Pressurized Water Reactor Fuel		Approved
XN-75-32, Supp. 1&2	Computational Procedures for Evaluating Fuel Rod Bowing	June 1975	May 1982
XN-75-41	Exxon Nuclear Company WREM-Based Generic PWR ECCS Evaluation Model		Approved
XN-76-27	Exxon Nuclear Company WREM-Based Generic PWR ECCS Evaluation Model Update ENC WREM-II		Approved
XN-NF-78-30	Exxon Nuclear Company WREM-Based Generic PWR ECCS Evaluation Model Update ENC WREM-IIA		Approved
XN-NF-81-22	Generic Statistical Uncertainty Analysis Methodology	May 1981	February 1982
XN-NF-81-58	Fuel Rod Thermal-Mechanical Response Evaluation Model (RODEX2)	Aug. 1981	June 1982
XN-NF-82-06	Qualification of Exxon Nuclear Company Fuel for Extended Burnup	Feb. 1982	Sept. 1982
XN-NF-82-20	Exxon Nuclear Company Evaluation Model EXEM/PWR ECCS Model Update Example Problem for C.E. Reactors	Feb. 1982 Aug. 1982	July 1982 Oct. 1982
XN-NF-82-09	Generic Mechanical Design for Exxon Nuclear 14x14 Reload Fuel for C.E. Reactors	Oct. 1982	Jan. 1983
XN-NF-621	Exxon Nuclear DNB Correlation for PWR Fuel Designs	Feb. 1982	Oct. 1982
Supplement	Extension of DNB Correlation	May 1982	Oct. 1982

