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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co.
 AUTH. NAME: WILLIAMS, J.W. AUTHOR AFFILIATION: Florida Power & Light Co.
 RECIP. NAME: BUTCHER, E.J. RECIPIENT AFFILIATION: Operating Reactors Branch 3

SUBJECT: Forwards XN-NF-85-117, "St. Lucie Unit 1 Revised LOCA-ECCS Analysis w/15% Steam Generator Tube Plugging," in support of 851017 proposed license amend re LHGR limits.

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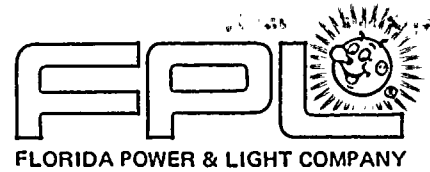
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Abstract: This report describes the development of a computer program for the analysis of data from a series of experiments. The program is designed to handle data from a series of experiments and to produce a summary of the results. The program is written in FORTRAN and runs on a CDC 3600 computer. The program is described in detail in the following sections.

REFERENCES

Author	Title	Journal	Year
Smith, J. D.	Analysis of experimental data	J. Appl. Phys.	1965
Johnson, R. E.	Computer methods for data analysis	Comput. J.	1966
Williams, G. H.	Statistical methods in physics	Phys. Rev.	1967
Miller, L. A.	Data reduction techniques	Rev. Mod. Phys.	1968
Clark, M. B.	Experimental error analysis	Am. J. Phys.	1969
Evans, N. G.	Computerized data processing	Comput. Phys. Commun.	1970
Green, P. J.	Statistical analysis of experimental results	Stat. Sci.	1971
White, S. K.	Methods for the analysis of experimental data	Phys. Fluids	1972
Black, T. L.	Computer programs for data analysis	Comput. Phys. Commun.	1973
Gray, R. W.	Statistical methods in experimental physics	Phys. Rev. D	1974
King, H. J.	Data analysis techniques for particle physics	Comput. Phys. Commun.	1975
Lee, C. Y.	Computerized statistical analysis	Comput. Phys. Commun.	1976
Wong, M. H.	Statistical methods in experimental physics	Phys. Rev. D	1977
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Scott, D. A.	Computerized data processing techniques	Comput. Phys. Commun.	1980
Wright, J. M.	Statistical methods in experimental physics	Phys. Rev. D	1981
Green, P. J.	Data analysis techniques for particle physics	Comput. Phys. Commun.	1982
White, S. K.	Computerized statistical analysis	Comput. Phys. Commun.	1983
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Gray, R. W.	Data analysis techniques for particle physics	Comput. Phys. Commun.	2018
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Lee, C. Y.	Statistical methods in experimental physics	Phys. Rev. D	2020
Wong, M. H.	Data analysis techniques for particle physics	Comput. Phys. Commun.	2021
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Allen, L. S.	Statistical methods in experimental physics	Phys. Rev. D	2023
Scott, D. A.	Data analysis techniques for particle physics	Comput. Phys. Commun.	2024
Wright, J. M.	Computerized statistical analysis	Comput. Phys. Commun.	2025



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L-85-430

Office of Nuclear Reactor Regulation
Attention: Mr. Edward J. Butcher, Acting Chief
Operating Reactors Branch #3
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Butcher:

Re: St. Lucie Unit No. 1
Docket No. 50-335
LOCA-ECCS Analysis

Florida Power & Light Company's (FPL) letter to NRC, L-85-331, dated August 27, 1985, provided the details on an input error in the St. Lucie Unit No. 1 LOCA-ECCS analysis performed by Exxon Nuclear Company, Inc. (ENC). ENC corrected the input error and completed a re-analysis using current NRC approved methodologies. As a result of the re-analysis, FPL requested an amendment to the St. Lucie Unit No. 1 Technical Specifications (L-85-396, dated October 17, 1985) to assure continued compliance with 10 CFR 50.46 criteria.

In support of the proposed license amendment, the attached ENC Report XN-NF-85-117 provides the documentation to support the operating Linear Heat Generation Rate (LHGR) limits which meet the 10 CFR 50.46 criteria. Partial results of the LOCA break spectrum calculations sufficient to determine the limiting break LOCA are included, and results of the studies which provide the axially dependent operating LHGR limits are documented. The completed results of the LOCA-ECCS large break spectrum and the exposure calculations will be forwarded in a supplement to this report in early December 1985.

Very truly yours,

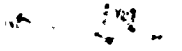
J. W. Williams, Jr.
J. W. Williams, Jr.
Group Vice President
Nuclear Energy

JWW/RJS/dh

Attachment

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