



**PERRY NUCLEAR POWER PLANT**

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**Michael D. Lyster**  
VICE PRESIDENT - NUCLEAR

May 22, 1992  
PY-CEI/NRR-1495 L

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Perry Nuclear Power Plant  
Docket No. 50-440  
Core Operating Limits  
Report Submittal (Cycle 4)

Gentlemen:

This letter provides the Core Operating Limits Report (COLR) for Unit 1 of the Perry Nuclear Power Plant (PNPP) for the upcoming fuel cycle. This submittal adds a Maximum Average Planar Linear Heat Generation Rate (MAPLHGR) curve and a Linear Heat Generation Rate (LHGR) value for each of the two new fuel types installed in the core for this cycle. Additionally, the Minimum Critical Power Ratio limits are revised to account for fuel type dependency and for partial feedwater heating conditions.

Attachment 1 is a copy of the Core Operating Limits Report for Cycle 4.

Enclosure 1 is a copy of the Supplemental Reload Licensing Report for the Perry Nuclear Power Plant Unit 1 (23A7147 Rev. 0) Reload 3, Cycle 4 which describes the core and summarizes the results of the transient and accident analyses for the upcoming cycle.

Enclosure 2 is a copy of Supplement 1 (23A7147AA Rev. 0) to the above Supplemental Reload Licensing Report, which contains fuel bundle descriptions and the MAPLHGR's for the new fuel loaded into the core for the upcoming cycle.

This information is considered by General Electric (GE) Company to be proprietary information. Pursuant to 10 CFR 2.790, it is requested that the information contained in Enclosure 2 be withheld from public disclosure. An affidavit from GE is attached to this letter as required by 10 CFR 2.790(b)(1).

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PDR

Operating Companies  
Cleveland Electric Illuminating  
Toledo Edison

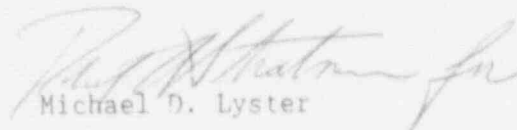
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CEI has received preliminary information from General Electric relating to their evaluation of the misoriented fuel bundle analysis. GE's evaluation of this issue continues. Until that evaluation is completed, CEI will conservatively implement additional MCPR operating margin in accordance with General Electric recommendations, to assure compliance with fuel thermal limit assumptions. This additional MCPR operating margin is reflected within the attached COLR.

If you have any questions, please feel free to call.

Sincerely,



Michael D. Lyster

MDL:RAL:ss

Attachment/Enclosures

Enclosure 2 contains 10 CFR 2.790 material to be withheld from public disclosure. Upon separation of Enclosure 2, this letter and its attachments are decontrolled.

cc: NRC Project Manager  
NRC Resident Inspector Office  
NRC Region III



## Affidavit

I, James F. Klapproth, being duly sworn, depose and state as follows:

1. I am Manager, Fuel Licensing, General Electric Company, and have been delegated the function of reviewing the information described in paragraph 2 which is sought to be withheld and have been authorized to apply for its withholding.
2. The information sought to be withheld is contained in the report *Supplemental Reload Licensing Submittal for Perry Nuclear Power Plant Unit 1 Reload 3, Cycle 4, 23A7147AA, Revision 0, Supplement 1, dated January 1992*.
3. In designating material as proprietary, General Electric utilizes the definition of proprietary information and trade secrets set forth in the American Law Institute's Restatement of Torts, Section 747. This definition provides:

"A trade secret may consist of any formula, pattern, device or compilation of information which is used in one's business and which gives him an opportunity to obtain an advantage over competitors who do not know or use it. . . . A substantial element of secrecy must exist, so that, except by the use of improper means, there would be difficulty in acquiring information. . . . Some factors to be considered in determining whether given information is one's trade secret are: (1) the extent to which the information is known outside of his business; (2) the extent to which it is known by employees and others involved in his business; (3) the extent of measures taken by him to guard the secrecy of the information; (4) the value of the information to him and to his competitors; (5) the amount of effort or money expended by him in developing the information; (6) the ease or difficulty with which the information could be properly acquired or duplicated by others."

4. Some examples of categories of information which fit into the definition of proprietary information are:
  - a. Information that disclosed a process, method or apparatus where prevention of its use by General Electric's competitors without license from General Electric constitutes a competitive economic advantage over other companies;
  - b. Information consisting of supporting data and analyses, including test data, relative to a process, method or apparatus, the application of which provide a competitive economic advantage, e.g., by optimization or improved marketability;

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- c. Information which, if used by a competitor, would reduce his expenditure of resources or improve his competitive position in the design, manufacture, shipment, installation, assurance of quality or licensing of a similar product;
  - d. Information which reveals cost or price information, production capacities, budget levels or commercial strategies of General Electric, its customers or suppliers;
  - e. Information which reveals aspects of past, present or future General Electric customer-funded development plans and programs of potential commercial value to General Electric;
  - f. Information which discloses patentable subject matter for which it may be desirable to obtain patent protection;
  - g. Information which General Electric must treat as proprietary according to agreements with other parties.
5. Initial approval of proprietary treatment of a document is typically made by the Subsection manager of the originating component, who is most likely to be acquainted with the value and sensitivity of the information in relation to industry knowledge. Access to such documents within the Company is limited on a "need to know" basis and such documents are clearly identified as proprietary.
  6. The procedure for approval of external release of such a document typically requires review by the Subsection Manager, Project manager, Principal Scientist or other equivalent authority, by the Subsection Manager of the cognizant Marketing function (or delegate) and by the Legal Operation for technical content, competitive effect and determination of the accuracy of the proprietary designation in accordance with the standards enumerated above. Disclosures outside General Electric are generally limited to regulatory bodies, customers and potential customers and their agents, suppliers and licensees and then only with appropriate protection by applicable regulatory provisions or proprietary agreements.
  7. The document mentioned in paragraph 2 above has been evaluated in accordance with the above criteria and procedures and has been found to contain information which is proprietary and which is customarily held in confidence by General Electric.
  8. The document mentioned in paragraph 2 above is classified as proprietary because it contains details concerning current General Electric fuel designs which were developed at considerable expense to General Electric which are not available to other parties.
  9. The information to the best of my knowledge and belief has consistently been held in confidence by the General Electric Company, no public disclosure has been made, and it is not available in public sources. All disclosures to third parties have been made pursuant to regulatory provisions or proprietary agreements which provide for maintenance of the information in confidence.
  10. Public disclosure of the information sought to be withheld is likely to cause substantial harm to the competitive position of the General Electric Company and deprive or reduce the availability of profit making opportunities because it would provide other parties, including

competitors, with valuable information regarding current General Electric fuel designs which were obtained at considerable cost to the General Electric Company.

STATE OF CALIFORNIA        )  
COUNTY OF SANTA CLARA    ) SS:

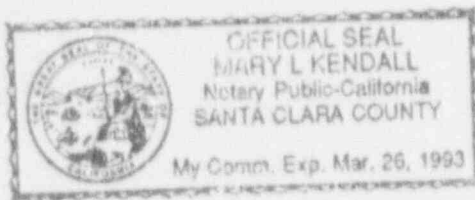
James F. Klapproth, being duly sworn, deposes and says:

That he has read the foregoing affidavit and the matters stated therein are true and correct to the best of his knowledge, information, and belief.

Executed at San Jose, California, this 12<sup>th</sup> day of May 1992.

James F. Klapproth  
James F. Klapproth  
General Electric Company

Subscribed and sworn before me this 12<sup>th</sup> day of May 1992.



Mary L. Kendall  
Notary Public - California  
Santa Clara County