



General Electric Company  
175 Curtner Avenue, San Jose, CA 95125

December 6, 1994  
MFN 152-94

U.S. Nuclear Regulatory Commission  
Mail Stop 14 H25  
Washington, DC 20555-001  
Attention: Kahtan Jabbour

**SUBJECT: Submittal of Revision to GE Licensing Topical Report,  
NEDC-32410P Nuclear Measurement Analysis and Control Power  
Range Neutron Monitor (NUMAC PRNM) Retrofit Plus Option III  
Stability Trip Function**

As discussed in the November 7, 1994, meeting/conference call between NRC staff, GE Nuclear Energy and utility representatives, GE-NE is submitting the accompanying revised preliminary draft Licensing Topical Report, NEDC 32410P *Nuclear Measurement Analysis and Control Power Range Neutron Monitoring (NUMAC PRNM) Retrofit Plus Option III Stability Trip Function*, draft revision C, dated December 1994, for NRC review. A final issued Licensing Topical Report is still planned to be complete by January, 1995, for formal NRC review and approval.

The revised draft includes the proposed deletion of the APRM downscale trip discussed in the November 11 meeting, adds justification for that and other minor changes planned in APRM functions, and adds generic information on proposed Technical Specifications changes. Also included is specific information on the recirculation flow interface with the PRNM for all anticipated configurations. Additional clarification or information has been added in several other areas reflecting the evolution of the design, and an appendix has been added with some block diagrams.

As discussed in earlier meetings, in order to support utilities planned implementation schedule of the automatic instability detect and suppress trip function, this draft version report is being submitted to allow advanced NRC review prior to submittal of the issued version. As such, the Report is incomplete in some areas and will change in others either due to evolution of the design work or correction of errors. Where the report is known to be incomplete, notations in the report indicate the nature of the information to be added.

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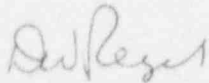
Mr. Kahtan Jabbour  
December 6, 1994  
Page 2

To facilitate NRC review, two copies of draft Revision C submitted include "editing marks" to show changes from draft Revision B. Three clean copies of Revision C along with an electronic version on diskette are also included.

Because portions of this report contain information which GE-NE customarily maintains in confidence and withholds from public disclosure, an affidavit also is enclosed. The designated information has been handled and classified as proprietary to GE-NE as identified in the enclosed affidavit. GE-NE hereby requests that the designated information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.790.

If you have any questions about this submittal please contact me, or George Stramback (GE) at (408) 925-1913.

Sincerely,



David W. Reigel, Project Manager  
Generic NUMAC PRNM Licensing  
Tel: (408) 925-2094  
Fax: (408) 925-6983

Enclosure: Affidavit, George B. Stramback, dated October 28, 1994

Attachments: NEDC 32410P *Nuclear Measurement Analysis and Control Power Range Neutron Monitor (NUMAC PRNM) Retrofit Plus Option III Stability Trip Function*, draft revision C, December 1994 (5 copies, two with editing marks, plus diskette with electronic file).

cc: M. E. Waterman (NRC)  
G. B. Stramback (GE)

## General Electric Company

### AFFIDAVIT

I, **George B. Stramback**, being duly sworn, depose and state as follows:

- (1) I am Project Manager, Licensing Services, General Electric Company ("GE") 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 GE proprietary report NEDC-32410P, *Nuclear Measurement Analysis and Control Power Range Neutron Monitoring (NUMAC PRNM) Retrofit Plus Option III Stability Trip Function*, Class III (GE Company Proprietary Information), draft revision C, dated December 1994 and the electronic file copy on the computer disk. The proprietary information is delineated by double side bars marked in the margin adjacent to the specific material and the corresponding marks in the electronic file copy. The computer disk label will contain a proprietary marking.
- (3) In making this application for withholding of proprietary information of which it is the owner, GE relies upon the exemption from disclosure set forth in the Freedom of Information Act ("FOIA"), 5 USC Sec. 552(b)(7), and the Trade Secrets Act, 18 USC Sec. 1905, and NRC regulations 10 CFR 9.17(a)(4), 2.790(a)(4), and 2.790(d)(1) for "trade secrets and commercial or financial information obtained from a person and privileged or confidential" (Exemption 4). The material for which exemption from disclosure is here sought is all "confidential commercial information", and some portions also qualify under the narrower definition of "trade secret", within the meanings assigned to those terms for purposes of FOIA Exemption 4 in, respectively, Critical Mass Energy Project v. Nuclear Regulatory Commission, 975F2d871 (DC Cir. 1992), and Public Citizen Health Research Group v. FDA, 704F2d1280 (DC Cir. 1983).
- (4) Some examples of categories of information which fit into the definition of proprietary information are:
  - a. Information that discloses a process, method, or apparatus, including supporting data and analyses, 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 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;
- c. Information which reveals cost or price information, production capacities, budget levels, or commercial strategies of General Electric, its customers, or its suppliers;
- d. Information which reveals aspects of past, present, or future General Electric customer-funded development plans and programs, of potential commercial value to General Electric;
- e. Information which discloses patentable subject matter for which it may be desirable to obtain patent protection.

The information sought to be withheld is considered to be proprietary for the reasons set forth in both paragraphs (4)a., (4)b and (4)e., above.

- (5) The information sought to be withheld is being submitted to NRC in confidence. The information is of a sort customarily held in confidence by GE, and is in fact so held. The information sought to be withheld has, to the best of my knowledge and belief, consistently been held in confidence by GE, no public disclosure has been made, and it is not available in public sources. All disclosures to third parties including any required transmittals to NRC, have been made, or must be made, pursuant to regulatory provisions or proprietary agreements which provide for maintenance of the information in confidence. Its initial designation as proprietary information, and the subsequent steps taken to prevent its unauthorized disclosure, are as set forth in paragraphs (6) and (7) following.
- (6) Initial approval of proprietary treatment of a document is made by the manager of the originating component, the person most likely to be acquainted with the value and sensitivity of the information in relation to industry knowledge. Access to such documents within GE is limited on a "need to know" basis.
- (7) The procedure for approval of external release of such a document typically requires review by the staff manager, project manager, principal scientist or other equivalent authority, by the manager of the cognizant marketing function (or his delegate), and by the Legal Operation, for technical content, competitive effect, and determination of the accuracy of the proprietary designation. Disclosures outside GE are limited to regulatory bodies, customers, and potential customers, and their agents, suppliers, and licensees, and others with a legitimate need for the information, and then only in accordance with appropriate regulatory provisions or proprietary agreements.
- (8) The information identified in paragraph (2), above, is classified as proprietary because it contains details of the NUMAC hardware design and solutions to application

requirements for PRNM, Option III stability trip function, and logic changes, utilizing methods and processes, including software and computer codes, which GE has developed.

The development and approval of the NUMAC hardware and software was achieved at a significant cost, on the order of a few million dollars, to GE.

The development of the evaluation process along with the interpretation and application of the results is derived from the extensive experience base that constitutes a major GE asset.

- (9) Public disclosure of the information sought to be withheld is likely to cause substantial harm to GE's competitive position and foreclose or reduce the availability of profit-making opportunities. The information is part of GE's comprehensive BWR safety and technology base, and its commercial value extends beyond the original development cost. The value of the technology base goes beyond the extensive physical database and analytical methodology and includes development of the expertise to determine and apply the appropriate evaluation process. In addition, the technology base includes the value derived from providing analyses done with NRC-approved methods.

The research, development, engineering, analytical and NRC review costs comprise a substantial investment of time and money by GE.

The precise value of the expertise to devise an evaluation process and apply the correct analytical methodology is difficult to quantify, but it clearly is substantial.

GE's competitive advantage will be lost if its competitors are able to use the results of the GE experience to normalize or verify their own process or if they are able to claim an equivalent understanding by demonstrating that they can arrive at the same or similar conclusions.

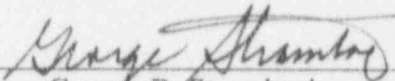
The value of this information to GE would be lost if the information were disclosed to the public. Making such information available to competitors without their having been required to undertake a similar expenditure of resources would unfairly provide competitors with a windfall, and deprive GE of the opportunity to exercise its competitive advantage to seek an adequate return on its large investment in developing these very valuable analytical tools.

STATE OF CALIFORNIA            )  
                                          )        ss:  
COUNTY OF SANTA CLARA        )


George B. Stramback, 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 6<sup>th</sup> day of December 1994.

  
George B. Stramback  
General Electric Company

Subscribed and sworn before me this 6<sup>th</sup> day of December 1994.

  
Notary Public, State of California

