



GE Energy

Proprietary Information Notice

*This letter forwards proprietary information in accordance with 10CFR2.390. The balance of this letter may be considered non-proprietary upon the removal of Enclosure 1.*

**Joseph A. Savage**

Manager, ABWR Licensing  
3901 Castle Hayne Road, M/C J70  
Wilmington, NC 28402-2819  
USA  
T 910-602-1885  
F 910-602-1720  
[joseph.savage@ge.com](mailto:joseph.savage@ge.com)

**52-001**

MFN 07-226  
April 27, 2007

Document Control Desk  
US Nuclear Regulatory Commission  
Washington, DC 20555-0001

Subject: **Submittal of ABWR Licensing Topical Report (LTR)  
NEDO-33315P "Advanced Boiling Water Reactor (ABWR)  
Reactor Pressure Vessel Material Surveillance Program"**

Reference: Letter MFN 017-97, J. Quirk to NRC, *ABWR Design Control Document, Revision 4*, dated March 28, 1997, Docket No. 52-001

The enclosed Licensing Topical Report (LTR) is submitted for NRC generic review and approval as a Combined License (COL) license information item as required by the current ABWR certified design (referenced), Docket No. 52-001. The regulatory basis for this submittal is discussed below.

This is the fifth of a number of ABWR-related LTRs GE plans to submit and which have been discussed in South Texas Project 3&4 project meetings with the NRC. In support of the ABWR Design Centered Working Group (DCWG) plans, GE requests a generic review and approval of the subject LTR in advance of any future combined license application (COLA) submittals. Note that the submittal is the result of design detailing performed for ABWRs in the US and in Asia and provides for the generic resolution of a COL license information item, thereby contributing to standardization.

This LTR is submitted in response to DCD Tier 2, Section 5.3.4.2, COL license information item - 5.5. The information contained in this LTR is typical for an ABWR Reactor Pressure Vessel (RPV) Material Surveillance Program. It should be noted that plant specific information as required by COL license information item - 5.5 will be provided following the completion of the construction of the RPV. The plant specific information will reflect the final fuel selection and the resulting predicted fluence and

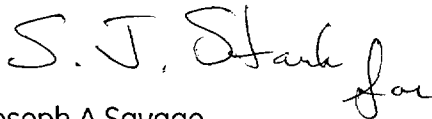
**DO50**

the actual reactor pressure vessel core beltline materials and associated material impact test results and fracture toughness properties.

Enclosure 1 contains GE proprietary information as defined by 10 CFR 2.390. GE customarily maintains this information in confidence and withholds it from public disclosure. The affidavit contained in enclosure 3 identifies that the information contained in Enclosure 1 has been handled and classified as proprietary to GE. GE hereby requests that the information of Enclosure 1 be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390 and 9.17. A non proprietary version is contained in Enclosure 2.

If you have any questions about the information provided here, please contact me directly at 910-602-1885.

Sincerely,

A handwritten signature in black ink that reads "S. J. Stark" followed by a stylized flourish.

Joseph A Savage  
Project Manager, ABWR Licensing

- Enclosure 1: NEDE-33315P "Advanced Boiling Water Reactor (ABWR) Reactor Pressure Vessel (RPV) Material Surveillance Program" April 2007 – Proprietary
- Enclosure 2: NEDO-33315 "Advanced Boiling Water Reactor (ABWR) Reactor Pressure Vessel (RPV) Material Surveillance Program" April 2007 – Non-Proprietary
- Enclosure 3: Affidavit, Steven J. Stark, April 27, 2007

cc:     JA Savage                   GE (Wilmington w/ enclosure)  
       GB Stramback            GE (San Jose w/o enclosure)  
       Bob E. Brown            GE (Wilmington w/ enclosure)  
       GF Wunder                NRC (w/ enclosure)  
       MA McBurnett            STP (w/ enclosure)  
       eDRF 0000-0064-2075

**Enclosure 3**

**MFN 07-226**

**NEDO-33315P Advanced Boiling Water Reactor (ABWR)  
Reactor Pressure Vessel Material Surveillance Program**

**Affidavit**

**Steven J. Stark**

**April 27, 2007**

# General Electric Company

## AFFIDAVIT

I, **Steven J. Stark**, state as follows:

- (1) I am Senior Engineer, ABWR Licensing, 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 Enclosure 1 of GE letter MFN 07-226, Mr. Joseph A. Savage, to U.S. Nuclear Regulatory Commission. *Proprietary Information* is delineated by a [[dotted underline inside double square brackets.<sup>(3)</sup>]]. Figures and large equation objects are identified with double square brackets before and after the object." The superscript notation <sup>(3)</sup> refers to Paragraph (3) of this affidavit, which provides the basis for the proprietary determination.
- (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)(4), and the Trade Secrets Act, 18 USC Sec. 1905, and NRC regulations 10 CFR 9.17(a)(4), and 2.790(a)(4) for "trade secrets" (Exemption 4). The material for which exemption from disclosure is here sought 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 aspects of past, present, or future General Electric customer-funded development plans and programs, resulting in potential products to General Electric;
  - d. 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 paragraphs (4)a., and (4)b, above.

- (5) To address 10 CFR 2.390 (b) (4), 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 identifies detailed GE ABWR design information for the Nuclear Boiler System. GE utilized prior Nuclear Boiler System design information and experience from its fleet with significant resource allocation in developing the system over several years at a cost of over one million dollars.

The development of the evaluation process along with the interpretation and application of the analytical results is derived from the extensive experience database 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.

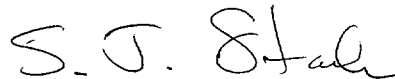
The precise value of the expertise to devise an evaluation process and apply the correct analytical methodology is difficult to quantify, but it clearly is substantial.

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.

I declare under penalty of perjury that the foregoing affidavit and the matters stated therein are true and correct to the best of my knowledge, information, and belief.

Executed on this 27<sup>th</sup> day of April 2007.

A handwritten signature in dark ink, appearing to read "S. J. Stark", is written above a horizontal line.

Steven J. Stark  
General Electric Company