



GE Energy

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MFN 05-164

Docket No. 52-010

December 15, 2005

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555-0001

**Subject: ESBWR P&IDs for RCCW System, PSW System, RWCU/SDC System,  
and General Arrangement Drawing for the Nuclear Island**

To facilitate better understanding of some design appurtenances to the design information provided in the ESBWR DCD, the NRC has requested copies of some GE Proprietary ESBWR design drawings (i.e., P&IDs) and general arrangement drawings (GAs). To address this request, GE is providing the Enclosure 1 "Drawing Package" of P&IDs and GAs containing GE Proprietary and/or Sensitive Unclassified ESBWR design drawings. The Drawing Package is provided as confirmatory information (i.e., not for formal review and approval), and the enclosed drawings do not constitute part of the ESBWR DCD. Non proprietary/non sensitive versions of the Drawing Package are not available and if prepared would effectively be blank sheets with only title blocks; therefore, the Enclosure 1 cover sheet will list the titles of the drawings, representing the extent of available non-proprietary/non sensitive information. The following P&IDs are provided:

- ESBWR RCCW System (4 sheets)
- ESBWR PSW System (2 sheets)
- RWCU/SDC System (4 sheets)

Enclosure 1 contains proprietary information as defined in 10CFR2.390. The affidavit contained in Enclosure 2 identifies that the information contained in Enclosure 1 has been handled and classified as proprietary to GE. GE hereby requests that the proprietary information in Enclosure 1 be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390 and 9.17.

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The following general arrangement drawing also is provided in Enclosure 1:

- ESBWR Nuclear Island (11 sheets)

In addition to being proprietary, this drawing is also considered Sensitive Unclassified Information. Each sheet of this drawing contains the designation "Sensitive Unclassified Information." GE hereby requests this information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390.

If you have any questions about the information provided here, please let me know.

Sincerely,



David H. Hinds  
Manager, ESBWR

Enclosures:

1. MFN 05-164:
  - P&IDs - GE Proprietary Information:
    - ESBWR RCCW System – Drawing No. 105E3890 - (4 sheets)
    - ESBWR PSW System – Drawing No. 105E3893 - (2 sheets)
    - RWCU/SDC System – Drawing No. 105E3981 - (4 sheets)
  - General Arrangement Drawing - GE Proprietary Information and Sensitive Unclassified Information:
    - ESBWR Nuclear Island – Drawing No. 105E3908 - (11 sheets)
2. Affidavit – George B. Stramback – dated December 15, 2005

cc: WD Beckner USNRC (w/o enclosures)  
AE Cabbage USNRC (with enclosures)  
LA Dudes USNRC (w/o enclosures)  
GB Stramback GE/San Jose (with enclosures)  
eDRF 0000-0040-9476 and eDRF Section 0000-0046-9631

**ENCLOSURE 2**

**MFN 05-164**

**Affidavit**

# General Electric Company

## AFFIDAVIT

I, **George B. Stramback**, state as follows:

- (1) I am Manager, Regulatory 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 Enclosure 1 of GE letter MFN 05-164, David H. Hinds to USNRC, *ESBWR P&IDs for RCCW System, PSW System, RWCUSDC System, and General Arrangement Drawing for the Nuclear Island*, dated December 15, 2005. The proprietary information in Enclosure 1, *P&IDs - GE Proprietary Information: ESBWR RCCW System - Drawing No. 105E3890 - (4 sheets), ESBWR PSW System - Drawing No. 105E3893 - (2 sheets), RWCUSDC System - Drawing No. 105E3981 - (4 sheets); General Arrangement Drawing - GE Proprietary Information and Sensitive Unclassified Information: ESBWR Nuclear Island - Drawing No.105E3908 - (11 sheets)*, is identified by the designation "GE Proprietary Information" on each page.
- (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 contains detailed ESBWR design information developed by GE over a period of more than ten years at a cost of several million dollars. This information, 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.
- (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.

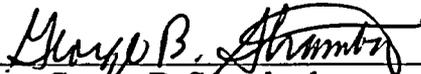
The precise value of the expertise to devise an evaluation process and apply the correct analytical methodology is difficult to quantify, but it clearly is substantial.

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 15<sup>th</sup> day of December 2005

  
George B. Stramback  
General Electric Company

## **ENCLOSURE 1**

### **MFN 05-164**

#### **P&IDs - GE Proprietary Information:**

- ESBWR RCCW System - Drawing No. 105E3890 - (4 sheets)
- ESBWR PSW System - Drawing No. 105E3893 - (2 sheets)
- RWCUC/SDC System - Drawing No. 105E3981- (4 sheets)

#### **General Arrangement Drawing - GE Proprietary Information and Sensitive Unclassified Information:**

- ESBWR Nuclear Island - Drawing No.105E3908 - (11 sheets)

**Contains Sensitive Unclassified Information**

**Contains GE Proprietary Information**

#### **PROPRIETARY INFORMATION NOTICE**

This enclosure contains proprietary information of the General Electric Company (GE) and is furnished in confidence solely for the purpose(s) stated in the transmittal letter. No other use, direct or indirect, of the document or the information it contains is authorized. Furnishing this enclosure does not convey any license, express or implied, to use any patented invention or, except as specified above, any proprietary information of GE disclosed herein or any right to publish or make copies of the enclosure without prior written permission of GE. Each page that contains GE proprietary information contains the designation, "GE Proprietary Information."