



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.*

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MFN 07-080

Docket No. 52-010

March 27, 2007

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

Subject: **ESBWR Power Cycle System P&IDs**

Enclosure 1 contains GE ESBWR Power Cycle System Piping and Instrumentation Diagrams (P&ID's) as promised in the response to the subject NRC RAI 10.3-3 item (D) and transmitted via the Reference 1 letter.

- ESBWR Circulating Water System – Drawing No. 105E3949, Revision 1 – (2 sheets)
- ESBWR Turbine Bypass System – Drawing No. 105E3940, Revision 1 – (1 sheet)
- ESBWR Turbine Main Steam System (TMSS) – Drawing No. 105E3909, Revision 1 – (1 sheet)
- ESBWR Condensate and Feedwater System – Drawing No. 105E3910, Revision 1 – (4 Sheets)

The provisions under which GE is providing these P&IDs is described in the Reference 2 letter.

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. Non proprietary versions of these P&IDs are not available and if prepared would effectively be blank sheets with only title blocks;

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therefore, the Enclosure 1 cover sheet and its title reproduced later in this cover letter will list titles of drawings, thus providing the extent of available non-proprietary information.

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

Sincerely,



James C. Kinsey  
Project Manager, ESBWR Licensing

References:

1. MFN 06-219, Letter to U.S. Nuclear Regulatory Commission from David Hinds, *Response to NRC Request for Additional Information Letter No. 36 Related to ESBWR Design Certification Application - Steam and Power Conversion System and Radioactive Waste Management - RAI Numbers 10.3-1 through 10.3-9 and 11.1-1 through 11.1-3*, July 19, 2006
2. MFN 05-164, Letter from David H. Hinds to U. S. Nuclear Regulatory Commission, *ESBWR P&IDs for RCCW System, PSW System, RWCU/SDC System, and General Arrangement Drawing for the Nuclear Island*, December 15, 2005

Enclosures:

1. MFN 07-080, ESBWR Power Cycle System P&IDs – Proprietary
  - o ESBWR Circulating Water System – Drawing No. 105E3949, Revision 1 – (2 sheets)
  - o ESBWR Turbine Bypass System – Drawing No. 105E3940, Revision 1 – (1 sheet)
  - o ESBWR Turbine Main Steam System (TMSS) – Drawing No. 105E3909, Revision 1 – (1 sheet)
  - o ESBWR Condensate and Feedwater System – Drawing No. 105E3910, Revision 1 – (4 sheets)
2. Affidavit – David H. Hinds – dated March 27, 2007

cc: AE Cabbage USNRC (with enclosures)  
B.E. Brown GE/Wilmington (with enclosures)  
GB Stramback GE/San Jose (with enclosures)

**Enclosure 2**

**MFN 07-080**

**AFFIDAVIT**

## General Electric Company

### AFFIDAVIT

**I, David H. Hinds**, state as follows:

- (1) I am Manager, ESBWR, 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 07-080, James C. Kinsey to NRC, *ESBWR Power Cycle System P&IDs*, dated March, 27, 2007. The proprietary information in Enclosure 1, 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.

- e. 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 the 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 positioning 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.

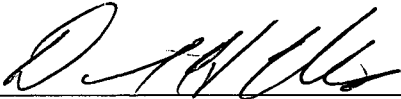
The precise value of the expertise to devise an evaluation process and apply the correct analytical methodology is difficult to quantify, but it clearly is substantial.

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 27<sup>th</sup> day of March 2007.

  
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David H. Hinds  
General Electric Company

## **Enclosure 1**

**MFN 07-080**

### **ESBWR Power Cycle System P&IDs**

#### **GE Proprietary Information**

- ESBWR Circulating Water System – Drawing No. 105E3949, Revision 1 – (2 sheets)
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#### **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 contains the designation “GE Proprietary Information.”