



Program Management Office
4350 Northern Pike
Monroeville, Pennsylvania 15146

WCAP-17057-P
Project Number 694

March 26, 2009

OG-09-116

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-001

Subject: PWR Owners Group
**For Information Only – WCAP-17057-P, Revision 0, “GSI-191 Fuel
Assembly Test Report for PWROG” PA-SEE-0480**

Reference: (1) OG-07-264, Submittal of WCAP-16793-NP, Revision 0, “Evaluation of Long-Term Cooling Considering Particulate, Fibrous and Chemical Debris in the Recirculating Fluid”, Gordon Bischoff (PWROG) to U.S. NRC Document Control Desk, June 4, 2007

In late 2006 the Pressurized Water Reactor Owners Group (PWROG) undertook a program to provide analyses and information on the effect of debris and chemical products on core cooling for Pressurized Water Reactors (PWRs) when the Emergency Core Cooling System (ECCS) is realigned to recirculate coolant from the containment sump. The intent was to demonstrate adequate heat removal capability for all plant scenarios. This program is documented in WCAP-16793-NP, Revision 0, “Evaluation of Long-Term Cooling Considering Particulate, Fibrous and Chemical Debris in the Recirculating Fluid” (Reference 1).

In March 2008, the Advisory Committee on Reactor Safeguards (ACRS) reviewed the content and conclusions of WCAP-16793 Revision 0, recommending the PWROG consider a fuel testing program to support the conclusions of WCAP-16793-NP, Revision 0.

In late 2008 the PWROG initiated prototypical fuel assembly (FA) testing to establish limits on the debris mass (particulate, fibrous and chemical) that could bypass the reactor containment building sump screen and not result in unacceptable head loss that would impede core inlet flow and challenge long-term core cooling of the core. The results of

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the PWROG fuel testing program for current Westinghouse fuel designs are documented in WCAP-17057-P, Revision 0 "GSI-191 Fuel Assembly Test Report for PWROG".

This letter transmits four (4) copies of WCAP-17057-P, Revision 0, and is provided as a supplement to, and in support of, WCAP-16793-NP, Revision 1, and, as such, no review fee or separate Safety Evaluation (SE) is expected.

Also enclosed is Westinghouse authorization letter AW-09-2545, accompany affidavit, Proprietary Information Notice, and Copyright Notice.

WCAP-17057-P, Revision 0 contains information proprietary to Westinghouse Electric Company LLC, it is supported by an affidavit signed by Westinghouse, owner of the information. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b) (4) of Section 2.390 of the Commission's regulations.

Accordingly, it is respectfully requested that this information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR Section 2.390 of the Commission's regulations.

A non-proprietary version of this document is currently being produced and will be transmitted under a separate cover.

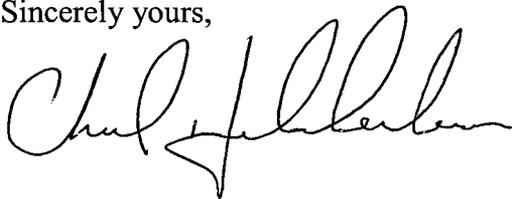
Correspondence with respect to the copyright or proprietary aspects of the information listed above or supporting Westinghouse affidavit should reference AW-09-2545 and should be addressed to Mr. J. A. Gresham, Manager, Regulatory Compliance and Plant Licensing, Westinghouse Electric Company LLC, P.O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

Correspondence related to this transmittal should be addressed to:

Mr. Anthony Nowinowski
Manager, Owners Group Program Management Office
Westinghouse Electric Company
Mail Stop ECE 5-16
P.O. Box 355
Pittsburgh, Pennsylvania 15230-0355

If you have any questions, please do not hesitate to contact me at 254-897-5851 or Mr. Anthony Nowinowski of the Owners Group Program Management Office at 412-374-6855.

Sincerely yours,

 FOR DENNIS E. BUSCHBAUM

Dennis E. Buschbaum, Chairman
PWR Owners Group

Enclosures:

1. 4 copies of WCAP-17057-P, "GSI-191 Fuel Assembly Test Report for PWROG" (Proprietary).
2. One copy of the Application for Withholding, AW-09-2545 (Non-proprietary) with Proprietary Information Notice.
3. One copy of Affidavit (Non-proprietary).

cc: PWROG Management Committee
PWROG Steering Committee
PWROG Systems & Equipment Engineering Subcommittee
PWROG Licensing Subcommittee
PWROG PMO
H. Cruz, USNRC
T.S. Andreychek, Westinghouse
S. Baier, Westinghouse
T. Croyle, Westinghouse
P.V. Pyle, Westinghouse



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Our ref: AW-09-2545

March 26, 2009

APPLICATION FOR WITHHOLDING PROPRIETARY
INFORMATION FROM PUBLIC DISCLOSURE

Subject: WCAP-17057-P, Revision 0, "GSI-191 Fuel Assembly Test Report for PWROG" (Proprietary)

Reference: OG-09-116, dated March 26, 2009

The Application for Withholding is submitted by Westinghouse Electric Company LLC (Westinghouse), pursuant to the provisions of Paragraph (b) (1) of Section 2.390 of the Commission's regulations. It contains commercial strategic information proprietary to Westinghouse and customarily held in confidence.

The proprietary material for which withholding is being requested is identified in the proprietary version of the subject report. In conformance with 10 CFR Section 2.390, Affidavit AW-09-2545 accompanies this Application for Withholding, setting forth the basis on which the identified proprietary information may be withheld from public disclosure.

Accordingly, it is respectfully requested that the subject information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR Section 2.390 of the Commission's regulations.

Correspondence with respect to this Application for Withholding or the accompanying affidavit should reference AW-09-2545 and should be addressed to J. A. Gresham, Manager, Regulatory Compliance and Plant Licensing, Westinghouse Electric Company LLC, P.O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

Very truly yours,

A handwritten signature in black ink, appearing to read "J. A. Gresham".

J. A. Gresham, Manager
Regulatory Compliance and Plant Licensing

Enclosures

cc: George Bacuta (NRC OWFN 12E-1)

bcc: J. A. Gresham (ECE 4-7A) 1L
R. Bastien, 1L (Nivelles, Belgium)
C. Brinkman, 1L (Westinghouse Electric Co., 12300 Twinbrook Parkway, Suite 330, Rockville, MD 20852)
RCPL Administrative Aide (ECE 4-7A) (Letter and affidavit only)

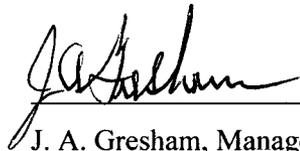
AFFIDAVIT

COMMONWEALTH OF PENNSYLVANIA:

SS

COUNTY OF ALLEGHENY:

Before me, the undersigned authority, personally appeared J. A. Gresham, who, being by me duly sworn according to law, deposes and says that he is authorized to execute this Affidavit on behalf of Westinghouse Electric Company LLC (Westinghouse), and that the averments of fact set forth in this Affidavit are true and correct to the best of his knowledge, information, and belief:



J. A. Gresham, Manager

Regulatory Compliance and Plant Licensing

Sworn to and subscribed before me
this 26th day of March, 2009



Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal
Patricia L. Crown, Notary Public
Monroeville Boro, Allegheny County
My Commission Expires Feb. 7, 2013

Member, Pennsylvania Association of Notaries

- (1) I am Manager, Regulatory Compliance and Plant Licensing, in Nuclear Services, Westinghouse Electric Company LLC (Westinghouse), and as such, I have been specifically delegated the function of reviewing the proprietary information sought to be withheld from public disclosure in connection with nuclear power plant licensing and rule making proceedings, and am authorized to apply for its withholding on behalf of Westinghouse.
- (2) I am making this Affidavit in conformance with the provisions of 10 CFR Section 2.390 of the Commission's regulations and in conjunction with the Westinghouse "Application for Withholding" accompanying this Affidavit.
- (3) I have personal knowledge of the criteria and procedures utilized by Westinghouse in designating information as a trade secret, privileged or as confidential commercial or financial information.
- (4) Pursuant to the provisions of paragraph (b)(4) of Section 2.390 of the Commission's regulations, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure should be withheld.
 - (i) The information sought to be withheld from public disclosure is owned and has been held in confidence by Westinghouse.
 - (ii) The information is of a type customarily held in confidence by Westinghouse and not customarily disclosed to the public. Westinghouse has a rational basis for determining the types of information customarily held in confidence by it and, in that connection, utilizes a system to determine when and whether to hold certain types of information in confidence. The application of that system and the substance of that system constitutes Westinghouse policy and provides the rational basis required.

Under that system, information is held in confidence if it falls in one or more of several types, the release of which might result in the loss of an existing or potential competitive advantage, as follows:

 - (a) The information reveals the distinguishing aspects of a process (or component, structure, tool, method, etc.) where prevention of its use by any of Westinghouse's competitors without license from Westinghouse constitutes a competitive economic advantage over other companies.

- (b) It consists of supporting data, including test data, relative to a process (or component, structure, tool, method, etc.), the application of which data secures a competitive economic advantage, e.g., by optimization or improved marketability.
- (c) Its use 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 a similar product.
- (d) It reveals cost or price information, production capacities, budget levels, or commercial strategies of Westinghouse, its customers or suppliers.
- (e) It reveals aspects of past, present, or future Westinghouse or customer funded development plans and programs of potential commercial value to Westinghouse.
- (f) It contains patentable ideas, for which patent protection may be desirable.

There are sound policy reasons behind the Westinghouse system which include the following:

- (a) The use of such information by Westinghouse gives Westinghouse a competitive advantage over its competitors. It is, therefore, withheld from disclosure to protect the Westinghouse competitive position.
- (b) It is information that is marketable in many ways. The extent to which such information is available to competitors diminishes the Westinghouse ability to sell products and services involving the use of the information.
- (c) Use by our competitor would put Westinghouse at a competitive disadvantage by reducing his expenditure of resources at our expense.
- (d) Each component of proprietary information pertinent to a particular competitive advantage is potentially as valuable as the total competitive advantage. If competitors acquire components of proprietary information, any one component

may be the key to the entire puzzle, thereby depriving Westinghouse of a competitive advantage.

- (e) Unrestricted disclosure would jeopardize the position of prominence of Westinghouse in the world market, and thereby give a market advantage to the competition of those countries.
 - (f) The Westinghouse capacity to invest corporate assets in research and development depends upon the success in obtaining and maintaining a competitive advantage.
- (iii) The information is being transmitted to the Commission in confidence and, under the provisions of 10 CFR Section 2.390, it is to be received in confidence by the Commission.
- (iv) The information sought to be protected is not available in public sources or available information has not been previously employed in the same original manner or method to the best of our knowledge and belief.
- (v) The proprietary information sought to be withheld in this submittal is that which is appropriately marked in WCAP-17057-P, Revision 0, "GSI-191 Fuel Assembly Test Report for PWROG" (Proprietary), dated March 2009, on behalf of the Pressurized Water Reactors Owners Group by Westinghouse Electric Company LLC, being transmitted by Westinghouse letter (OG-09-116) and Application for Withholding Proprietary Information from Public Disclosure, to the Document Control Desk. The proprietary information as submitted by Westinghouse for the Pressurized Water Reactors Owners Group is expected to be applicable in other licensee submittals in response to certain NRC requirements for justification of acceptance criterion associated with post-LOCA debris accumulation on Westinghouse fuel.

This information is part of that which will enable Westinghouse to:

- (a) Determine whether plant specific post-LOCA debris loads are within acceptable limits for Westinghouse fuel products.

- (b) Evaluate plant specific debris loads and the impact on post-LOCA core cooling.
- (c) Assist customers in developing a methodology to reduce post-LOCA debris loads at the inlet of the fuel.

Further this information has substantial commercial value as follows:

- (a) Westinghouse plans to sell the use of similar information to its customers for purposes of developing strategies to reduce plant-specific debris loading at the inlet to the core and determining if plant-specific debris loads impact post-LOCA long term core cooling.
- (b) Westinghouse can sell support and defense of conclusions of the test program.
- (c) The information requested to be withheld reveals the distinguishing aspects of a methodology which was developed by Westinghouse.

Public disclosure of this proprietary information is likely to cause substantial harm to the competitive position of Westinghouse because it would enhance the ability of competitors to provide similar calculations, evaluations, and engineering judgments for commercial power reactors without commensurate expenses. Also, public disclosure of the information would enable others to use the information to meet NRC requirements for licensing documentation without purchasing the right to use the information.

The development of the technology described in part by the information is the result of applying the results of many years of experience in an intensive Westinghouse effort and the expenditure of a considerable sum of money.

In order for competitors of Westinghouse to duplicate this information, similar technical programs would have to be performed and a significant manpower effort, having the requisite talent and experience, would have to be expended.

Further the deponent sayeth not.

PROPRIETARY INFORMATION NOTICE

Transmitted herewith are proprietary and/or non-proprietary versions of documents furnished to the NRC in connection with requests for generic and/or plant-specific review and approval.

In order to conform to the requirements of 10 CFR 2.390 of the Commission's regulations concerning the protection of proprietary information so submitted to the NRC, the information which is proprietary in the proprietary versions is contained within brackets, and where the proprietary information has been deleted in the non-proprietary versions, only the brackets remain (the information that was contained within the brackets in the proprietary versions having been deleted). The justification for claiming the information so designated as proprietary is indicated in both versions by means of lower case letters (a) through (f) located as a superscript immediately following the brackets enclosing each item of information being identified as proprietary or in the margin opposite such information. These lower case letters refer to the types of information Westinghouse customarily holds in confidence identified in Sections (4)(ii)(a) through (4)(ii)(f) of the affidavit accompanying this transmittal pursuant to 10 CFR 2.390(b)(1).

COPYRIGHT NOTICE

The reports transmitted herewith each bear a Westinghouse copyright notice. The NRC is permitted to make the number of copies of the information contained in these reports which are necessary for its internal use in connection with generic and plant-specific reviews and approvals as well as the issuance, denial, amendment, transfer, renewal, modification, suspension, revocation, or violation of a license, permit, order, or regulation subject to the requirements of 10 CFR 2.390 regarding restrictions on public disclosure to the extent such information has been identified as proprietary by Westinghouse, copyright protection notwithstanding. With respect to the non-proprietary versions of these reports, the NRC is permitted to make the number of copies beyond those necessary for its internal use which are necessary in order to have one copy available for public viewing in the appropriate docket files in the public document room in Washington, DC and in local public document rooms as may be required by NRC regulations if the number of copies submitted is insufficient for this purpose. Copies made by the NRC must include the copyright notice in all instances and the proprietary notice if the original was identified as proprietary.