



Program Management Office  
1000 Westinghouse Drive  
Cranberry Township, PA 16066

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WCAP-17867-P, Revision 1  
Project Number 694

September 12, 2014

OG-14-320

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

Subject: PWR Owners Group  
**Transmittal of Additional Documents to Support the NRC Review of WCAP-17867-P, Revision 1, "Westinghouse SSPS Board Replacement Licensing Summary Report," PA-LSC-1170 R1**

References:

1. OG-14-41, Submittal of WCAP-17867-P, Revision 0, "Westinghouse SSPS Board Replacement Licensing Summary Report," PA-LSC-1170
2. NRC Letter from Anthony J. Mendiola to Mr. W. Anthony Nowinowski, "Acceptance for Review of Pressurized Water Reactor Owners Group (PWROG) Topical Report WCAP-17867-P, Revision 0 "Westinghouse SSPS [Solid State Protection System] Board Replacement Licensing Summary Report," (TAC NO. MF3550)
3. OG-14-136, "Request for Exemption from NRC Fees to Review WCAP-17867-P "Westinghouse SSPS Board Replacement Licensing Summary Report," dated January 2014
4. NRC Letter from Jonathan G. Rowley to Mr. Nowinowski, "Request For Additional Information RE: Pressurized Water Reactor Owners Group Topical Report WCAP-17867-P, Revision 0, "Westinghouse SSPS Board Replacement Licensing Summary Report," (TAC NO. MF3550), dated May 7, 2014
5. OG-14-207, "PWR Owners Group Transmittal of the Non-Proprietary Summary of WCAP-17867-P, "Westinghouse SSPS Board Replacement Licensing Summary Report," PA-LSC-1170 R1," dated June 18, 2014
6. OG-14-203, "Submittal of Request for Additional Information (RAI) Response Regarding WCAP-17867-P, Revision 0 "Westinghouse SSPS Board Replacement Licensing Summary Report," PA-LSC-1170 R1," dated June 20, 2014
7. NRC Letter from Maureen Wylie to Mr. Jack Stringfellow, "Granting of the Fee Waiver Request," dated August 18, 2014, (ML14190A943)
8. OG-14-281, "Submittal of WCAP-17867-P, Revision 1, "Westinghouse SSPS Board Replacement Licensing Summary Report," PA-LSC-1170 R1", dated August 25, 2014.

DO48  
KRR

The purpose of this letter is to transmit the documents enclosed to support the review of WCAP-17867-P, "Westinghouse SSPS Board Replacement Licensing Summary Report" Revision 1, dated August 2014 (Reference 8).

The NRC staff requested that the additional Westinghouse Proprietary documents listed in Attachment 1 of the CAW-14-4032 be formally transmitted to support the preparation of the Staff's Draft Safety Evaluation. Note that the Reference numbers in Attachment 1 of the CAW-14-4032 correspond to the reference numbers listed on pages xxvi through xliii of Topical Report WCAP-19867-P, Revision 1.

Enclosed is:

1. Documentation to Support the Review of WCAP-17867-P, Revision 1, "Westinghouse SSPS Board Replacement Licensing Summary Report" (Proprietary)

Also enclosed is the Westinghouse Application for Withholding Proprietary Information from Public Disclosure CAW-14-4032, accompanying Affidavit, Proprietary Information Notice, and Copyright Notice.

The subject documents listed in Attachment 1 were prepared and classified as Westinghouse Proprietary Class 2. Westinghouse requests that the document be considered proprietary in its entirety. As such, a non-proprietary version will not be issued.

As Item 1 contains information proprietary to Westinghouse Electric Company LLC, it is supported by an Affidavit signed by Westinghouse, the 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 the information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR Section 2.390 of the Commission's regulations.

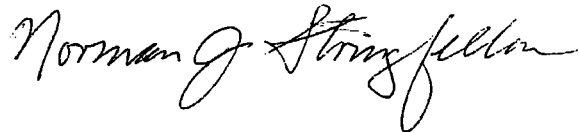
Correspondence with respect to the copyright or proprietary aspects of the items listed above or the supporting Westinghouse Affidavit should reference CAW-14-4032 and should be addressed to James A. Gresham, Manager, Regulatory Compliance, Westinghouse Electric Company, 1000 Westinghouse Drive, Building 3 Suite 310, Cranberry Township, Pennsylvania 16066.

Correspondence related to this transmittal should be addressed to:

Mr. W. Anthony Nowinowski, Program Manager  
PWR 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 (205) 992-7037 or Mr. W. Anthony Nowinowski, Program Manager of the PWR Owners Group, Program Management Office at (412) 374-6855.

Sincerely yours,



Jack Stringfellow, Chief Operating Officer and Chairman  
PWR Owners Group

CMH:NJS:las

Enclosures (one copy each):

1. Documentation to Support the Review of WCAP-17867-P, Revision 1, "Westinghouse SSPS Board Replacement Licensing Summary Report" (Proprietary)
2. One copy of the Application for Withholding, CAW-14-4032 (Non-proprietary) with the accompanying affidavit, Proprietary Information Notice and Copyright Notice.

Attachments:

1. One copy of the Attachment to CAW-14-4032: Documentation to Support the Review of WCAP-17867-P, Revision 1

cc: PWROG Management Committee  
PWROG Licensing Subcommittee  
PWROG Steering Committee  
PWROG I&C Working Group  
PWROG PMO  
J. Gresham, Westinghouse  
J. Andrachek, Westinghouse  
J. Moorehead, Westinghouse  
D. Olinski, Westinghouse  
T. Gruber, Westinghouse  
M. Ryan, Westinghouse  
M. Ackman, Westinghouse  
K. Altemus, Westinghouse  
M. Stofko, Westinghouse  
R. Beacom, US NRC  
N. Carte, US NRC  
D. Rahn, US NRC  
P. Hiland, US NRC  
J. Rowley, US NRC

## Attachment 1 to CAW-14-4032

### Enclosed Documentation to Support the Review of WCAP-I7867-P, Revision 1

The NRC staff requested that the additional Westinghouse Proprietary documents listed below be formally transmitted to support the preparation of the Staff's Draft Safety Evaluation.

1. Westinghouse Document 418A49, Revision 4, "Westinghouse Design Specification Universal Logic Board Replacement"
2. Westinghouse Document TDH121803001, Revision 2, "Project Plan, SSPS Circuit Boards Re-Design"
3. Westinghouse Document ULTPTDH001, Revision 2, "Universal Logic Board Design Test Plan"
4. Westinghouse Document 1TS2870, Revision 1, "Universal Logic Board 6D30225G01/G02/G03/G04 Functional Test Procedure"
5. Westinghouse Document 1TS2868, Revision 0, "Universal Logic Board 6D30225 Test Decomposition"
6. Westinghouse Document 1TS2871\_COMP, Revision 0, "Universal Logic Board 6D30225G01/G02 System Functional Test Procedure"
7. Westinghouse Document 1TS2887, Revision 0, "Safeguards Driver Board Design Test Plan"
8. Westinghouse Document CDI-3015, Revision 3, "Commercial Dedication Instruction for the Universal Logic Board 6D30225"
9. Westinghouse Document 1TS2958, Revision 3, "Universal Logic Board 6D30225G01/G02/G03/G04 Configuration Procedure for Manufacturing and Repair"
10. Westinghouse Document 1TS2963, Revision 4, "Universal Logic Board 6D30225G01/G02/G03/G04 Functional Test Procedure For Manufacturing and Repair"
11. Westinghouse Document WCAP-8694, Revision 0, "Seismic Qualification of Rotary Relay for Use in the Solid State Protection System," January 1976. This document was submitted to the NRC in support of the operation of Watts Bar Nuclear Plant, Units 1 and 2, Docket Nos. 50-390 and 50-391. The SER is stored on ADAMS via Accession Number ML073450542. Westinghouse previously released this to the NRC via Form 36 on March 1976.

**List of Additional Westinghouse Proprietary Documents to Support the Review of WCAP-17867-P,  
Revision 1**

Note that the Reference numbers correspond to the reference numbers listed on pages xxvi through xliii of Topical Report WCAP-19867-P, Revision 1.

1. Reference 11. Westinghouse Document EQLR-063, Rev. 1, "Seismic and Environmental Test Report, Westinghouse Solid State Protection System Universal Logic Printed Circuit Boards 6D30225G01/G02 and Replacement Output Test Switches 4A48889," September 18, 2008
2. Reference 12. Westinghouse Document EQLR-127, Rev. 1, "Environmental and Seismic Test Report for the Westinghouse Solid State Protection System Memory Board Assembly 6D31035, Decoder Board Assembly 6D31031 Clock Counter Board Assembly 6D30687, Isolation Board Assembly 6D31033, and Semi-Automatic Tester Board Assembly 6D30520," May 29, 2009
3. Reference 62. Westinghouse Document EQ-EV-93, Rev. 0, "Seismic Qualification Evaluation for Replacement SSPS Power Supply, Printed Circuit Board Assemblies, and Test Switches Qualified by the EQLR Report Series," January 19, 2012
4. Reference 74. Westinghouse Document EQLR-156, Rev. 0, "Solid State Protection System Isolation Board 6D31033G01 Isolation Barrier Test Report," January 2012
5. Reference 103. Westinghouse Document 1TS2946, Rev 1, "SSPS Boards EMC/RFI Test Plan"
6. Reference 104. Westinghouse Document 1TS3116, Rev 0, "EMC Test Plan for Re-designed Solid State Protection System Circuit Boards"
7. Reference 141. Westinghouse Document LTR-EMPE-04-446, "Temperature Rise Test Data SSPS"
8. Reference 161. Westinghouse Document EQLR-077, Rev. 1, "Seismic and Environmental Test Report for the Westinghouse Solid State Protection System Safeguards Driver Printed Circuit Board 6D30252 and Under Voltage Driver Printed Circuit Board 6D30350," September 18, 2008
9. Reference 162. Westinghouse Document EQLR-078, Rev. 0, "Environmental Test Report for the Westinghouse Solid State Protection System Universal Logic Printed Circuit Board 6D30225, Safeguards Driver Printed Circuit Board 6D30252, Under Voltage Driver Printed Circuit Board 6D30350, and Semi-Automatic Tester Printed Circuit Board 6D30520," May 27, 2008
10. Reference 215. Westinghouse Document WCAP-8694, Rev. 0, "Seismic Qualification of Rotary Relay for Use in the Solid State Protection System," January 1976. This document was submitted to the NRC in support of the operation of Watts Bar Nuclear Plant, Units 1 and 2, Docket Nos. 50-390 and 50-391. The SER is stored on ADAMS via Accession Number

ML073450542. Westinghouse previously released this to the NRC via Form 36 on March 1976. This document is included with the 'September 5, 2014 Version of the DSE' documentation.

11. Reference 230. Westinghouse Document 1TR1003, Rev 0, "SSPS Card EMC Test Final Report"
12. Reference 231. Westinghouse Document 1TR1049, Rev 0, "SSPS Card EMC Test Final Report for Clock Counter, Decoder, Isolation and Memory Boards"



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Proj. letter OG-14-320  
CAW-14-4032

September 12, 2014

**APPLICATION FOR WITHHOLDING PROPRIETARY  
INFORMATION FROM PUBLIC DISCLOSURE**

**Subject: Documentation to Support the Review of WCAP-I7867-P, Revision 1, "Westinghouse SSPS Board Replacement Licensing Summary Report" (Proprietary)**

The proprietary information for which withholding is being requested in the documents provided in Attachment 1 to this letter is further identified in Affidavit CAW-14-4032 signed by the owner of the proprietary information, Westinghouse Electric Company LLC. The Affidavit, which accompanies this letter, 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 10 CFR Section 2.390 of the Commission's regulations.

The subject documents were prepared and classified as Westinghouse Proprietary Class 2. Westinghouse requests that the documents be considered proprietary in its entirety. As such, a non-proprietary version will not be issued.

Accordingly, this letter authorizes the utilization of the accompanying Affidavit by Pressurized Water Reactor Owners Group (PWROG).

Correspondence with respect to the proprietary aspects of the application for withholding or the Westinghouse Affidavit should reference CAW-14-4032 and should be addressed to James A. Gresham, Manager, Regulatory Compliance, Westinghouse Electric Company, 1000 Westinghouse Drive, Building 3 Suite 310, Cranberry Township, Pennsylvania 16066.

Very truly yours,

A handwritten signature in cursive script that reads 'James A. Gresham'.

James A. Gresham, Manager  
Regulatory Compliance

Enclosures

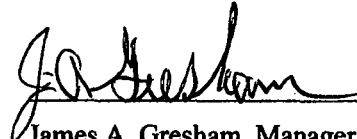
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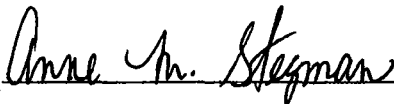
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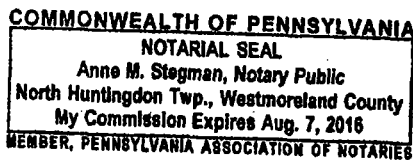
COUNTY OF BUTLER:

Before me, the undersigned authority, personally appeared James 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:

  
James A. Gresham, Manager  
Regulatory Compliance

Sworn to and subscribed before me  
this 12th day of September 2014

  
Notary Public





- (1) I am Manager, Regulatory Compliance, 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 Proprietary Information from Public Disclosure 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 constitute Westinghouse policy and provide 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.
- (iii) 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.
- (iv) 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.
- (v) 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.
- (vi) The proprietary information sought to be withheld in this submittal is that which is provided in Attachment 1 to this letter supporting the review of WCAP-17867-P, Revision 1, "Westinghouse SSPS Board Replacement Licensing Summary Report" (Proprietary), for submittal to the Commission, being transmitted by PWROG letter OG-14-320 and Application for Withholding Proprietary Information from Public Disclosure, to the Document Control Desk. The proprietary information as submitted by Westinghouse is that associated with the NRC's request for documentation supporting the review and approval of WCAP-17867-P, Revision 1 and may be used only for that purpose.
- (a) This information is part of that which will enable Westinghouse to:
    - (i) Obtain NRC review and approval of WCAP-17867-P, Revision 1.
    - (ii) Support PWROG development of a generic 10 CFR 50.59 Evaluation of SSPS new design circuit board installation.

- (b) Further this information has substantial commercial value as follows:
- (i) Westinghouse plans to sell the use of similar information to its customers for the purpose of supporting operating plants that use the solid state protection system to end of plant life.
  - (ii) Westinghouse can sell support and defense of extending SSPS system operation until end of plant life.
  - (iii) 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 SSPS replacement circuit board technical support and licensing defense services 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 the proprietary versions of a documents furnished to the NRC associated with the NRC's request for documentation supporting the review and approval of WCAP-17867-P, Revision 1 and may be used only for that purpose. The documents are to be considered proprietary in their entirety.

### **COPYRIGHT NOTICE**

The report transmitted herewith bears a Westinghouse copyright notice. The NRC is permitted to make the number of copies of the information contained in this report which is 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. Copies made by the NRC must include the copyright notice in all instances and the proprietary notice if the original was identified as proprietary.