



Westinghouse  
Electric Corporation

Energy Systems

Nuclear and Advanced  
Technology Division

Box 355  
Pittsburgh Pennsylvania 15230-0355

October 26, 1990  
CAW-90-083

Document Control Desk  
US Nuclear Regulatory Commission  
Washington, DC 20555

Attention: Dr. Thomas Murley, Director

APPLICATION FOR WITHHOLDING PROPRIETARY  
INFORMATION FROM PUBLIC DISCLOSURE

Subject: Transmittal of WCAP-12737

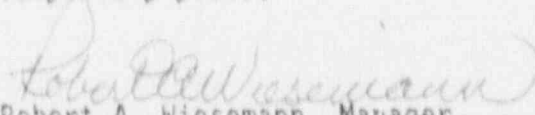
Dear Dr. Murley:

The proprietary information for which withholding is being requested in the above-referenced letter is further identified in Affidavit CAW-90-083 signed by the owner of the proprietary information, Westinghouse Electric Corporation. 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 2.790 of the Commission's regulations.

Accordingly, this letter authorizes the utilization of the accompanying Affidavit by Duquesne Light Company.

Correspondence with respect to the proprietary aspects of the application for withholding or the Westinghouse affidavit should reference this letter, CAW-90-083, and should be addressed to the undersigned.

Very truly yours,

  
Robert A. Wiesemann, Manager  
Regulatory & Legislative Affairs

Enclosures

cc: C. M. Holzle, Esq.  
Office of the General Counsel, NRC

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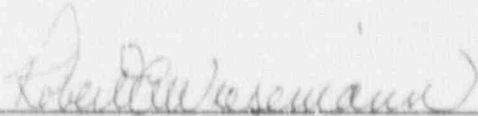
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COMMONWEALTH OF PENNSYLVANIA:

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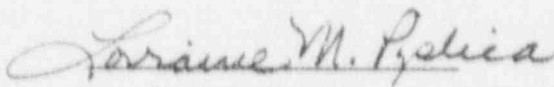
COUNTY OF ALLEGHENY:

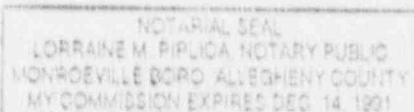
Before me, the undersigned authority, personally appeared Robert A. Wiesemann, who, being by me duly sworn according to law, deposes and says that he is authorized to execute this Affidavit on behalf of Westinghouse Electric Corporation ("Westinghouse") and that the averments of fact set forth in this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

  
\_\_\_\_\_

Robert A. Wiesemann, Manager  
Regulatory and Legislative Affairs

Sworn to and subscribed  
before me this 29<sup>th</sup> day  
of October, 1990.

  
Notary Public



- (1) I am Manager, Regulatory and Legislative Affairs, in the Nuclear and Advanced Technology Division, of the Westinghouse Electric Corporation 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 rulemaking proceedings, and am authorized to apply for its withholding on behalf of the Westinghouse Energy Systems Business Unit.
- (2) I am making this Affidavit in conformance with the provisions of 10CFR Section 2.790 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 the Westinghouse Energy Systems Business Unit 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 2.790 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.
- (g) It is not the property of Westinghouse, but must be treated as proprietary by Westinghouse according to agreements with the owner.

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 which 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 10CFR Section 2.790, 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 "LOFTTR2 Analysis for a Steam Generator Tube Rupture for Beaver Valley Unit 2", WCAP-12737, (Proprietary), for Beaver Valley Power Station Unit 2, being transmitted by the Duquesne Light Company (DLC) letter and Application for Withholding Proprietary Information from Public Disclosure, J. D. Sieber, Vice President, Nuclear Operations, DLC, to Public Document Room, attention Dr. Thomas Murley, November, 1990. The proprietary information as submitted for use by Duquesne Light Company for the Beaver Valley Power Station Unit 2 is expected to be applicable in other licensing submittals in response to certain NRC requirements for justification of the design basis analysis for a steam generator tube rupture accident.

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

- (a) Provide documentation of the methods, assumptions, and analysis for a design basis steam generator tube rupture accident.
- (b) Establish the margin to steam generator overfill for a design basis steam generator tube rupture.
- (c) Establish the offsite radiation doses for a design basis steam generator tube rupture.
- (d) Assist the customer to obtain NRC approval.

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 meeting NRC requirements for licensing documentation.
- (b) Westinghouse can sell support and defense of the technology to its customers in the licensing process.



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 analytical documentation 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 for developing analytical methods.

Further the deponent sayeth not.

## 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 2.790 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. The NRC is not authorized to make copies for the personal use of members of the public who make use of the NRC public document rooms. Copies made by the NRC must include the copyright notice in all instances and the proprietary notice if the original was identified as proprietary.

## 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 2.790 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 on the brackets remain, the information that was 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 (g) contained within parentheses 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)(g) of the affidavit accompanying this transmittal pursuant to 10 CFR 2.790(b)(1).

## ATTACHMENT 2

Equipment for Mitigation of a Licensing Basis Tube Rupture

<u>Description</u>	<u>Mark Number</u>	<u>Motive Power</u>	<u>QA Category</u>
Containment Isolation Phase A and Phase B reset controls		N/A	1
Safety Injection reset controls		N/A	1
Steam Generator Blowdown isolation valves and controls	2BDG*AOV100A1, B1, C1, 101A1, A2, B1, B2, C1, C2	Spring to close	1
Charging Pumps miniflow isolation valves and controls	2CHS*MOV275A, B, C and 373	Electric Motor	1
Auxiliary Pressurizer Spray valve and controls	2CHS*MOV311	Electric Motor	1
Charging Pump alternate miniflow isolation valves and controls	2CHS*MOV380A, B	Electric Motor	1
Charging/High Head Safety Injection pumps and controls	2CHS*P21A, B, and C	N/A	1
Auxiliary Feedwater Pumps and Controls	2FWE*P23A, B	N/A	1
Main Streamline isolation and bypass valves and controls	2MSS*AOV101A, B, C, 102A, B, C	Spring to close	1
Turbine Driven Auxiliary Feedwater Pump steam supply isolation valves and controls	2MSS*SOV105A, B, C, D, E, F	Solenoid	1
Pressurizer PORV block valves and controls	2RCS*MOV535, 536, 537	Electric Motor	1
Pressurizer PORVs and controls	2RCS*PCV455C, D, and 456	Solenoid-Pilot Operated	1
Reactor Vessel Head Vent valves and controls	2RCS*SOV200A, B, and 201A, B	Solenoid	1

## ATTACHMENT 2 (cont')

Equipment for Mitigation of a Licensing Basis Tube Rupture

<u>Description</u>	<u>Mark Number</u>	<u>Motive Power</u>	<u>QA Category</u>
Main Steamline drains to Condenser isolation valves and controls	2SDS*A0V111A1, A2, B1, B2, C1, C2	Spring to Close	1
Residual Heat Release piping drains valves and controls	2SDS*A0V129A, B	Spring to Close	1
High Head Safety Injection cold leg throttling valve and controls	2SIS*HCV868A, B	Solenoid	1
Charging/High Head Safety Injection pump cold leg injection isolation valves and controls	2SIS*MOV867A, B	Electric Motor	1
Atmospheric Seam Dump manual isolation valves	2SVS*23, 24, 25	Manual	1
Residual Heat Release manual isolation valves	2SVS*27, 28, 29	Manual	1
Residual Heat Release valve and controls	2SVS*HCV104	Electro/Hydraulic	1
Atmospheric Steam Dump valve and controls	2SVS*PCV101A, B, C	Electro/Hydraulic	1

ATTACHMENT 3

Instrumentation and Radiation Monitors Used for  
Licensing Basis Tube Rupture

AC buses power indication  
Annunciator A12-1C, "Auto Safety Injection Blocked"  
Annunciator A12-1D, "Safety Injection Signal"  
Core Exit Thermocouples (Plant Safety Monitoring System)  
Digital Radiation Monitoring console  
Offsite power status indication  
Reactor Coolant System subcooling indication (Plant Safety Monitoring System)  
Air Ejector radiation monitor [2ARC-RQ100]  
Steam Generator Blowdown isol valves status indication [2BDG\*AOV100A1, B1, C1, 101A1, A2, B1, B2, C1, C2]  
Refueling Water Storage Tank outlet isolation valves position indication [2CHS\*LCV115B and D]  
Volume Control Tank outlet isolation valves position indication [2CHS\*LCV115C and E]  
Auxiliary Pressurizer Spray valve position indications [2CHS\*MOV311]  
Charging/High Head Safety Injection pumps status indication [2CHS\*P21A, B, and C]  
Charging flow indication [2CHS-FI122A]  
Auxiliary Feedwater flow indication [2FWE\*FI100A1, A2, B1, B2, C1, C2]  
Feedwater flow regulating valves position indication [2FWS\*FCV478, 488, and 498]  
Feedwater flow bypass valves position indication [2FWS\*FCV479, 489, and 499]  
Feedwater flow indication [2FWS\*FI476, 486, 496, 477, 487, and 497]  
Steam Generator Narrow Range Level indication [2FWS\*LI474, 484, 494, 475, 485, 495, 476, 486, and 496]  
Main SteamLine isolation and bypass valves status indication [2MSS\*AOV101A, B, C, 102A, B, C]  
Steam Generator pressure indicators [2MSS\*PI474, 484, 494, 475, 485, 495, 476, 486, and 496]  
Main Steamline radiation monitors [2MSS\*RQ101A, B, C]  
Turbine Driven Auxiliary Feedwater Pump steam supply isolation valve status indication [2MSS\*SOV105A, B, C, D, E, F]  
Pressurizer level indication [2RCS\*LI459A, 460, and 461]  
Pressurizer PORV block valves position indication [2RCS\*MOV535, 536, and 537]  
Pressurizer PORV position indication [2RCS\*PCV455C, D, and 456]  
Reactor Coolant System wide range pressure indication [2RCS\*PI440 and 441]  
Main Steamline drains to Condenser status indication [2SDS\*AOV111A1, A2, B1, B2, C1, C2]  
Residual Heat Release piping drains status indication [2SDS\*AOV129A, B]  
Steam Generator Blowdown radiation monitor [2SSR-RQ100]  
Residual Heat Release Valve status indication [2SVS\*HCV104]  
Atmospheric Steam Dump valves status indications [2SVS\*PCV101A, B, C]