



Westinghouse Electric Company  
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USA

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

Direct tel: 412/374-5282  
Direct fax: 412/374-4011  
e-mail: sepp1ha@westinghouse.com

Our ref: LTR-NRC-03-32

July 31, 2003

**Subject: Extension of CROSSFLOW Signal Conditioning Unit Re-Calibration Period  
(Proprietary / Non-Proprietary)**

Reference: CENPD-397-P-A, Rev. 01, "Improved Flow Measurement Accuracy Using Crossflow Ultrasonic Flow Measurement Technology", May 2000

The purpose of this letter is to inform the Nuclear Regulatory Commission (NRC) that Westinghouse Electric Company LLC (Westinghouse) and Advanced Measurement Analysis Group (AMAG), makers of the CROSSFLOW Ultrasonic Flow Measurement System, have informed CROSSFLOW Users that the re-calibration period for the Signal Conditioning Unit (SCU) can be extended. The CROSSFLOW System and its NRC approval is documented in CENPD-397-P-A, Rev. 01 (Reference). Westinghouse is not requesting NRC review or approval of the information contained herewith but is instead providing this information to keep the NRC apprised of a change to material discussed in the reference topical report.

The CROSSFLOW topical report discusses the SCU in Section 8.3.1. SCUs have now been in service for up to seven (7) years. In each case, during the scheduled SCU re-calibration, it has been observed that there is little if any degradation in instrument drift or calibration accuracy. For this reason, the originally recommended re-calibration period is being extended. A more detailed discussion is provided in Enclosure 1-P to this letter. A non-proprietary version of the discussion is provided in Enclosure 1-NP

Since the information provided in Enclosure 1-P contains Westinghouse Proprietary Class 2 information, also enclosed herewith are:

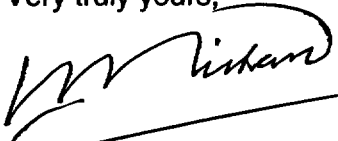
1. One (1) copy of the Application for Withholding, AW-03-1665 with Proprietary Information Notice and Copyright Notice.
2. One (1) copy of Affidavit, AW-03-1665.

This submittal contains Westinghouse proprietary information consisting of trade secrets, commercial, or financial information which we consider privileged or confidential pursuant to 10 CFR 9.17(a)(4). Therefore, it is requested that the Westinghouse proprietary information attached hereto be handled on a confidential basis and be withheld from public disclosure. This material is for your internal use only and may be used for the purpose for which it is submitted. It should not be otherwise used, disclosed, duplicated or disseminated, in whole or in part, to any other person or organization outside the Office of Nuclear Reactor Regulation without the express written approval of Westinghouse.

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Correspondence with respect to the Application for Withholding should reference AW-03-1665, and should be addressed to the undersigned.

Very truly yours,

  
for Henry A. Sepp, Manager  
Regulatory Compliance and Plant Licensing

Enclosure: As stated

xc: I. Ahmed  
B. J. Benney/NRC  
S. Dembek/NRC  
E. C. Marinos/NRC

# WESTINGHOUSE NON-PROPRIETARY CLASS3

## Enclosure 1-NP

### Extension of CROSSFLOW Signal Conditioning Unit Re-Calibration Period

#### Purpose

The purpose of this discussion is to inform the Nuclear Regulatory Commission (NRC) that the recommended re-calibration period for the Signal Conditioning Unit (SCU), of the of the CROSSFLOW Ultrasonic Flow Measurement System, is being extended from [ ]<sup>a, c</sup>. The SCU processes electronic signals being transmitted to and received from the CROSSFLOW ultrasonic transducers mounted on the feedwater pipe. The SCU also contains [ ]

[ ]<sup>a, c</sup> Section 8.3.1, "Signal Conditioning Unit (SCU)" of the CROSSFLOW topical report (CENPD-397-P-A, Rev. 01), states that [ ]

[ ]<sup>a, c</sup> The SCUs have now been in service for up to seven (7) years. In each case, during the scheduled unit re-calibration, it has been observed that there is little if any degradation in instrument drift or calibration accuracy. For this reason, [ ]

[ ]<sup>a, c</sup>

#### SCUs Currently in the Field

For SCUs that are currently in the field, the certificate that is provided with the SCU, when it is re-calibrated, will state that [ ]

[ ]<sup>a, c</sup>

#### Installation of New SCUs in the Future

For future installations, the certificate that is provided with the SCU will state that [ ]

[ ]<sup>a, c</sup>

These calibration certificates will also state that the SCU has been [ ]

[ ]<sup>a, c</sup>

**Topical Report Impact**

CENPD-397-P-A, Rev. 01, Section 8.3.1, "Signal Conditioning Unit (SCU)", states that  
[

]<sup>a, c</sup>

**RECOMMENDED ACTIONS**

Westinghouse believes that utilities using the CROSSFLOW Ultrasonic Flow Measurement System may, at their discretion, [

]<sup>a, c</sup>

Reference: CENPD-397-P-A, Rev. 01, "Improved Flow Measurement Accuracy Using CROSSFLOW Ultrasonic Flow Measurement Technology", May 2000



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Our ref: AW-03-1665  
July 31, 2003

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

**Subject: Extension of CROSSFLOW Signal Conditioning Unit Re-Calibration Period  
(Proprietary/Non-Proprietary)**

Reference: Letter, H. A. Sepp (Westinghouse) to USNRC Document Control Desk, "Extension of CROSSFLOW Signal Conditioning Unit Re-Calibration Period (Proprietary/Non-Proprietary)", LTR-NRC-03-32, July 31, 2003

This application for withholding is submitted by Westinghouse Electric Company LLC, ("Westinghouse"), pursuant to the provisions of paragraph (b)(1) of Section 2.790 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 Enclosure 1-P to LTR-NRC-03-32 (Reference). In conformance with 10 CFR Section 2.790, Affidavit AW-03-1665 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 2.790 of the Commission's regulations.

Correspondence with respect to the proprietary aspects of this submittal should reference AW-03-1665 and should be addressed to the undersigned.

Very truly yours,

  
for Henry A. Sepp, Manager  
Regulatory Compliance and Plant Licensing

Enclosures

AFFIDAVIT

STATE OF CONNECTICUT )

) ss. WINDSOR

COUNTY OF HARTFORD )

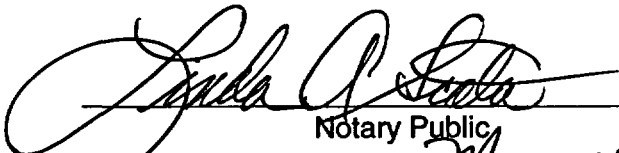
Before me, the undersigned authority, personally appeared Ian C. Rickard, who, being by me duly sworn according to law, deposes and says that he is authorized to execute this Affidavit on behalf of Westinghouse Electric Company LLC ("Westinghouse"), and that the averments of fact set forth in this Affidavit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



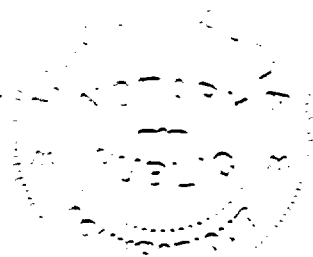
Ian C. Rickard  
Licensing Project Manager  
Regulatory Compliance and Plant Licensing

Sworn to and subscribed before me

this 31<sup>st</sup> day of July, 2003

  
\_\_\_\_\_  
Notary Public

My Commission expires: May 31, 2003



- (1) I, Ian C. Rickard, am the Licensing Project 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 the Westinghouse Electric Company LLC.
- (2) I am making this Affidavit in conformance with the provisions of 10 CFR 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 Electric Company LLC 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.

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 2.790, 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 Enclosure 1-P, "Extension of CROSSFLOW Signal Conditioning Unit Re-Calibration Period," for submittal to the Commission, being transmitted by Westinghouse letter (LTR-NRC-03-32) and Application for Withholding Proprietary Information from Public Disclosure, to the attention of NRC Document Control Desk. The proprietary information as submitted by Westinghouse is expected to be applicable in other licensee submittals in response to certain NRC requirements for justification of the application of the CROSSFLOW Ultrasonic Flow Measurement System.

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

- (a) Sell and install the CROSSFLOW Ultrasonic Flow Measurement in nuclear power plants for the purpose of improving feedwater flow measurement accuracy and, thereby, allowing licensees to pursue a 10 CFR 50, Appendix K power uprate.
- (b) Support licensees in demonstrating facility compliance with the NRC approval of CROSSFLOW documented in CENPD-397-P-A, Rev. 01 and its implementation for 10 CFR 50, Appendix K power uprates.

Further this information has substantial commercial value as follows:

- (a) This information contains detailed test data, design and methodologies used in the performance of safety analyses.
- (b) Westinghouse plans to sell the use of similar information to its customers for purposes of meeting NRC requirements for licensing documentation.
- (c) Westinghouse can sell support and defense of safety analyses methodologies used for purposes of meeting NRC requirements for licensing documentation.

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 technical evaluation justifications 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 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, 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 2.790(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 2.790 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. Copies made by the NRC must include the copyright notice in all instances and the proprietary notice if the original was identified as proprietary.