



Application Specific Integrated Circuit (ASIC)  
**Westinghouse Owners Group Subgroup**

WOG-ASIC-00-004

Project Number 694

January 27, 2000

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

Attention: Chief, Planning Program and Management Support Branch

Subject: Westinghouse Owners Group  
**ASIC Subgroup**  
**Fourth Submittal of Application Specific Integrated Circuit (ASIC) Design Information (MUHP-7300)**

Reference: 1) OG-97-069, dated July 10, 1997  
2) WOG-ASIC-98-002, dated June 5, 1998  
3) WOG-ASIC-99-019, dated August 9, 1999

Regular status meetings have been conducted to keep the NRC informed regarding the development of the digital ASIC replacement modules for use in analog process control and protection applications. During those update meetings, the WOG and now the ASIC Subgroup noted it intended to provide advanced submittal of design and licensing information to the NRC as it became available in order to support the requested review and approval schedule for issuing an NRC Safety Evaluation (SE) in 3<sup>rd</sup> Quarter 2000 in support of the in-plant ASIC demonstration application. Chapters 1, 2, and 3 of the ASIC licensing topical report were provided via reference 1), Chapter 7 via reference 2), and the seismic portion of Chapter 6 via reference 3). This fourth submittal provides Chapter 5 "Validation Test Plan" of the ASIC licensing topical for NRC review. Enclosed are three (3) copies of the Chapter 5 Validation Test Plan (Proprietary) entitled "ASIC Based Replacement Module (ABRM) Design Validation Plan" dated September 1997.

Also attached are:

1. One (1) copy of the Application of Withholding Proprietary Information from Public Disclosure, letter CAW-00-1375.
2. One (1) copy of the Affidavit.
3. One (1) copy of the Copyright Notice.
4. One (1) copy of the Proprietary Information Notice.

The information contained in the Validation Test Plan is proprietary. It is our intention to comply with 10 CFR Section 2.790 of the Commission's regulations requiring submittal of both proprietary and non-proprietary versions on the ASIC licensing topical report once it is completed and submitted in its entirety in May 2000.

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The Validation Test Plan provides the documentation to define the methodology that shall be followed to perform all tests required for each type of ABRM in order to validate each module design relative to the functional requirements and specifications for the Westinghouse ASIC-Based Replacement Modules for 7300 Process Protection System.

The Validation Test Plan transmitted herewith bears 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.

As this Validation Test Plan contains information proprietary to Westinghouse Electric Company, it is being transmitted with affidavits signed by Westinghouse, the owner of the information. The affidavits set forth the basis on which the information be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b)(4) of Section 2.790 of the Commission's regulations. Accordingly, it is respectively requested that the information which is proprietary be withheld from public disclosure in accordance with 10 CFR Section 2.790 of the Commission's regulations.

Correspondence with respect to the proprietary aspect of the Applications for Withholding or the supporting Westinghouse affidavit should reference CAW-00-1375 as appropriate and should be addressed to Mr. H. A. Sepp, Manager, Regulatory and Licensing Engineering, Westinghouse Electric Company LLC, P. O. Box 355, Pittsburgh, PA 15230-0355.

Invoices associated with the review of this WCAP should be addressed to:

Mr. Andrew P. Drake, Project Manager  
Westinghouse Owners Group  
Westinghouse Electric Company  
(Mail Stop ECE 5-16)  
P.O. Box 355  
Pittsburgh, PA 15230-0355.

The remaining sections of the licensing topical report to be submitted are:

- Chapter 4 - ASIC Test Results;
- Chapter 6 - EMI/RFI, Abnormal Environments and Fault Testing Results;
- Chapter 8 - Safety Evaluation; and
- Chapter 9 - References.

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Please direct any questions or comments regarding the information in this submittal to Mr. Richard (Dick) B. Miller of Westinghouse at (412) 374-5953.

Very truly yours,



Michael G. Eidson, Chairman  
ASIC Subgroup  
Westinghouse Owners Group

attachments / enclosures

cc: ASIC Subgroup Representatives (1L, 1E)  
WOG Steering Committee (1L)  
Eric J. Lee, USNRC (1L, 1E)  
Stephen D. Bloom, USNRC (1L, 1E)  
A. P. Drake, W - ECE 5-16 (1L)