



CS Innovations, LLC  
 7400 E. Tierra Buena Lane, Suite 101  
 Scottsdale, AZ 85260  
 Phone: 480-567-1100  
 Fax: 480-315- 9359

August 30, 2012  
 Our ref: 9200-00014

U.S. Nuclear Regulatory Commission  
 Document Control Desk  
 11555 Rockville Pike  
 Rockville, MD 20852

Subject: Advanced Logic System Topical Report and Supporting Documents Submittal  
 NRC Project Number 779

Enclosed:

1. Document titled "6002-00003, ALS V&V Plan," Rev. 7, marked proprietary
2. Document titled "6002-00005, ALS Test Plan," Rev. 3, marked proprietary
3. Document titled "6002-00010, ALS Platform Requirements Specification," Rev. 14, marked proprietary
4. Document titled "6002-00011, ALS Platform Specification," Rev. 10, marked proprietary
5. Document titled "6002-00018, ALS Platform FPGA V&V Test Plan," Rev. 4, marked proprietary

Enclosed are copies of the revised proprietary versions of the ALS V&V Plan, ALS Test Plan, ALS Platform Requirements Specification, ALS Platform Specification, and the ALS Platform FPGA V&V Plan, submitted for review per the Task Working Group #6: Licensing Process Interim Staff Guidance.

Additionally, the purpose of this transmittal is to submit the following supplemental information to the ALS Topical Report, 6002-00301, Table 12-1.

The tables below provide a cross reference between ISG-06, Revision 1 (ML110140103) and the ISG-06 Draft Revision 44 table in the ALS Topical Report (6002-00301) for Phase 2 and 3 documents.

Phase 2				
Current ISG-06 #	TR ISG-06 #	ISG-06 Document	TR Document ID	Phase 2 Deliverable
2.1	2.1	Safety Analysis	ALS Security Plan 6002-00007 [sic]	None – Requires Plant-Specific Safety Analysis
2.2	2.2	V&V Reports	ALS Platform V&V Summary Report 6002-00500	ALS Platform V&V Summary Report 6002-00500
2.3	2.16	As-Manufactured, System Configuration Documentation	CM Summary Report 6002-xxx81	CM Summary Report 6002-xxx81  CM Status Accounting Report 6002-xxx50

DO99  
 NRO

CS Innovations, LLC  
7400 E. Tierra Buena Lane, Suite 101  
Scottsdale, AZ 85260  
Phone: 480-567-1100  
Fax: 480-315-9359

August 30, 2012  
Our ref: 9200-00014

<b>Phase 2</b>				
<b>Current ISG-06 #</b>	<b>TR ISG-06 #</b>	<b>ISG-06 Document</b>	<b>TR Document ID</b>	<b>Phase 2 Deliverable</b>
				Platform Status Accounting Report 6002-00007
2.4	2.4	Test Design Specification	None – this pertains to a safety system application FAT	Test Design Specification 6002-xxx61
2.5	2.5	Summary of Test Reports	None – this pertains to a safety system application FAT	None
2.6	2.6	Summary of Test Results (Including FAT)	Test Summary Report 6002-xxx84  Although this section pertains to a safety system application FAT it was agreed at a Phase 0 meeting that the board level Test Summary Reports would be provided.	Test Summary Report 6002-xxx94  ALS Test Plan 6002-00005 now uses ABTS vs. ATE for the validation tool and thus the document suffix is changed from 84 to 94 for all boards.
2.7	2.3	Requirement Traceability Matrix	Requirement Traceability Matrix 6002-xxx11	Requirement Traceability Matrix 6002-xxx10 and 6002-xxx11
2.8	2.7	FMEA	FMEA Document (s)	FPA FMEA and Reliability Analysis 6002-xxx12
2.9	2.8	System Build Documents	Manufacturing Procedure 6002-xxx40 [sic]	ALS Board Manufacturing Procedure 6002-00060 Submitted February 20122  Board level manufacturing procedures obsolete and now only one universal manufacturing procedure exists.  CM Summary Report 6002-xxx81  CM Status Accounting 6002-xxx50

CS Innovations, LLC  
7400 E. Tierra Buena Lane, Suite 101  
Scottsdale, AZ 85260  
Phone: 480-567-1100  
Fax: 480-315- 9359

August 30, 2012  
Our ref: 9200-00014

<b>Phase 2</b>				
<b>Current ISG-06 #</b>	<b>TR ISG-06 #</b>	<b>ISG-06 Document</b>	<b>TR Document ID</b>	<b>Phase 2 Deliverable</b>
			It is the board level CM Summary Report and CM Status Accounting document that meet the requirements of D.4.4.3.5	
2.10 – Removed				
2.11	No comparable item #	Qualification Test Methodologies	Not Applicable	ALS EQ Plan 6002-0004 Provided as part of Phase 1  RAI Responses LTR-NRC-11-42 (9-Aug-2011)
2.12	2.10	Summary of Digital EMI, Temp., Humidity, and Seismic Testing Results	ALS Platform EQ Summary Report 6002-00200	ALS Platform EQ Summary Report 6002-00200
2.13	2.11	As-manufactured Logic Diagrams	None – applies to application specific plant design logic	None
2.14	2.12	System Response Time Confirmation Report	None – dependent on a plant-specific application configuration	None
2.15	2.13	Reliability Analysis	ALS Platform V&V Summary Report 6002-00500	FPA FMEA and Reliability Analysis 6002-xxx12
2.16	2.14	Setpoint Calculations	None – dependent on a plant-specific safety system application	None
2.17	2.15	Software Tool Analysis Report	ALS Design Tools 6002-00030	ALS Design Tools 6002-00030 – Provided as part of Phase 1

<b>Phase 3</b>				
<b>Current ISG-06 #</b>	<b>TR ISG-06 #</b>	<b>ISG-06 Document</b>	<b>TR Document ID</b>	<b>Phase 3 Document</b>
3.1	3.10	Software Integration Report	ALS Platform V&V Summary Report	ALS Platform V&V Summary Report

CS Innovations, LLC  
7400 E. Tierra Buena Lane, Suite 101  
Scottsdale, AZ 85260  
Phone: 480-567-1100  
Fax: 480-315-9359

August 30, 2012  
Our ref: 9200-00014

<b>Phase 3</b>				
<b>Current ISG-06 #</b>	<b>TR ISG-06 #</b>	<b>ISG-06 Document</b>	<b>TR Document ID</b>	<b>Phase 3 Document</b>
			6002-00500	6002-00500
3.2	3.12	Individual V&V Problem Reports up to FAT	ALS Platform V&V Summary Report 6002-00500	ALS Platform V&V Summary Report 6002-00500
3.3	3.1	Configuration Management Reports	ALS-xxx CM Summary Report 6002-xxx81	ALS-xxx CM Summary Report 6002-xxx81
3.4	3.2	Test Procedure Specification	None	ABTS Test Procedure 6002-10033
3.5	3.3	Completed Test Procedures and Reports	ALS-xxx Test Summary Report 6002-xxx84	ALS-xxx Test Summary Report 6002-xxx94
3.6	3.4	Test Incident Reports	ALS-xxx Test Summary Report 6002-xxx84	ALS-xxx Test Summary Report 6002-xxx94
3.7	3.5	Code Listings	For each board	ALS-xxx FPGA Binary D002 Core A 1200-xxx01  ALS-xxx FPGA Binary D002 Core B 1200-xxx02
3.8	3.7	Software Project Risk Management Report	ALS Management Plan 6002-00000	ALS Management Plan 6002-00000
3.9	3.9	Circuit Schematics	For each board	ALS Schematic Drawing 4002-xxx10
3.10	3.11	Detailed System and Hardware Drawings	For each board	BOM, ALS Board sub assembly 5002-xxx10  PCB Files 3015-053 – PCB, ALS-102, 6 Layer; 3015-042 – PCB, ALS-302, 6 Layer; 3015-040 - PCB, ALS-311, 6 Layer; 3015-041 - PCB, ALS-321, 6 Layer; 3015-065 - PCB, ALS-402, 6 Layer; 3015-055 - PCB, ALS-421, 6 Layer; 3015-043 - PCB, ALS-601, 6 Layer

Also enclosed are:



CS Innovations, LLC  
7400 E. Tierra Buena Lane, Suite 101  
Scottsdale, AZ 85260  
Phone: 480-567-1100  
Fax: 480-315-9359

August 30, 2012  
Our ref: 9200-00014

1. One (1) copy of the Application for Withholding Proprietary Information from Public Disclosure, 9200-00014 (Non-Proprietary), with Proprietary Information Notice and Copyright Notice.
2. One (1) copy of Affidavit (Non-Proprietary).

This submittal contains proprietary information of Westinghouse. In conformance with the requirements of 10 CFR Section 2.390, as amended, of the Commission's regulations, we are enclosing with this submittal an Application for Withholding Proprietary Information from Public Disclosure and an affidavit. The affidavit sets forth the basis on which the information identified as proprietary may be withheld from public disclosure by the Commission.

The subject document was prepared and classified as Westinghouse Proprietary Class 2, and Westinghouse requests that it be considered proprietary in its entirety. Westinghouse does not plan to submit a non-proprietary version of this document due to its extensive proprietary content. A non-proprietary version would be of no value to the public.

Correspondence with respect to Requests for Additional Information (RAI) associated with the NRC's review of the enclosed document, the proprietary aspects of the application for withholding, and the Westinghouse affidavit should reference 9200-00014 and should be addressed to Ms. Stephanie Smith, Project Manager - Nuclear Automation Licensing, Westinghouse Electric Company LLC, Suite 517, 5000 Ericsson Drive, Warrendale, Pennsylvania 15086.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Scott Roberts', written over a horizontal line.

Scott Roberts, President  
CS Innovations

Cc: Joseph Holonich (NRC, OWFN, Mailstop 13H10M)

Enclosures



CS Innovations, LLC  
7400 E. Tierra Buena Lane, Suite 101  
Scottsdale, AZ 85260  
Phone: 480-567-1100  
Fax: 480-315-9359

August 30, 2012  
Our ref: 9200-00014

**bcc: Stephanie Smith**  
**Scott Roberts**  
**Mark Stofko**  
**Warren Odess-Gillett**  
**John Porter**



CS Innovations, LLC  
7400 E. Tierra Buena Lane, Suite 101  
Scottsdale, AZ 85260  
Phone: 480-567-1100  
Fax: 480-315-9359

August 30, 2012  
Our ref: 9200-00014

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

**Subject: Advanced Logic System Topical Report and Supporting Documents Submittal  
NRC Project Number 779**

**Reference: Letter from Scott Roberts to Document Control Desk, 9200-00014, dated August 30, 2012**

The Application for Withholding Proprietary Information from Public Disclosure 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 information for which withholding is being requested is identified in the proprietary version of the subject documents. In conformance with 10 CFR Section 2.390, an affidavit accompanies this Application for Withholding Proprietary Information from Public Disclosure, 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 the proprietary aspects of the application for withholding or the accompanying affidavit should reference 9200-00014 and should be addressed to Ms. Stephanie Smith, Project Manager - Nuclear Automation Licensing, Westinghouse Electric Company LLC, Suite 517, 5000 Ericsson Drive, Warrendale, Pennsylvania 15086.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Scott Roberts', written over a horizontal line.

Scott Roberts, President  
CS Innovations

Enclosures

CS Innovations, LLC  
7400 E. Tierra Buena Lane, Suite 101  
Scottsdale, AZ 85260  
Phone: 480-567-1100  
Fax: 480-315-9359

August 30, 2012  
Our ref: 9200-00014

AFFIDAVIT

STATE OF ARIZONA:

SS

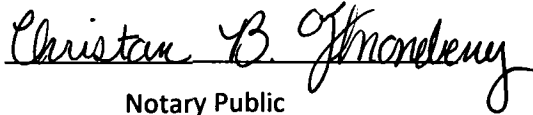
COUNTY OF MARICOPA:

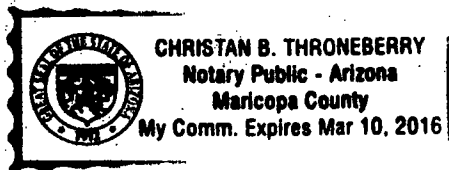
Before me, the undersigned authority, personally appeared Scott Roberts, who, being by me duly sworn according to law, deposes and says that he is authorized to execute this Affidavit on behalf of Westinghouse Electric Company LLC (Westinghouse), and that the averments of fact set forth in this Affidavit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



Scott Roberts, President  
CS Innovations

Sworn to and subscribed before me  
this 30 day of August 2012

  
Notary Public





- (1) I am President, CS Innovations, 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 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 the cover letter (9200-00014) from Scott Roberts, President CS Innovations, dated August 30, 2012, and with the subject "Advanced Logic System Topical Report and Supporting Documents Submittal NRC Project Number 779". The information is being submitted with an Application for Withholding Proprietary Information from Public Disclosure, to the Nuclear Regulatory Commission's Document Control Desk.

Further this information has substantial commercial value as follows:

- (a) The information requested to be withheld reveals the distinguishing aspects of a methodology which was developed by Westinghouse.
- (b) The information requested to be withheld reveals trade secrets.

- (c) The information requested to be withheld reveals details of Westinghouse intellectual property.
- (d) The information requested to be withheld reveals commercial strategies.

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 engineering services 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 2.390 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 documents transmitted herewith bear a Westinghouse copyright notice. The NRC is permitted to make the number of copies of the information contained in these documents 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. 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.