



# AHAM Verification Program Procedural Guide Part 2 Dishwashers

Version 3.0.



*Leadership > Knowledge > Innovation*

**Sponsor:**

Association of Home Appliance Manufacturers (AHAM)

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## FOREWORD

The Association of Home Appliance Manufacturers (AHAM) sponsors the Dishwasher **Verification Program (Program or Verification Program)**. This Procedural Guide outlines the specific policies and procedures which applies to Dishwasher **Verification Program** operated by AHAM. This Procedural Guide Part 2 should be used in conjunction with the AHAM Verification Program Procedural Guide Part 1 for All Major Appliance Verification Programs.

In order for products to be sold into the market in the United States, they must be compliant with applicable energy efficiency standards. The U.S. Department of Energy (DOE) request the product's Annual Energy Consumption including Standby Power (AEC), and Maximum Water Consumption are requested at the time of certification. Other programs, such as the voluntary ENERGY STAR program, a joint program of DOE and the US Environmental Protection Agency (EPA), administered by EPA, may require that **Manufacturers** obtain third-party **Qualification** of their products prior to distributing them into the market place.

Product certification is the responsibility of the product **Manufacturer**. The AHAM **Program** is not a certification program – it does not test products prior to their entry into market and it does not submit certification compliance information to **Government Stakeholders** on behalf of the **Manufacturers**. The AHAM **Program** does not qualify products, in the same way that it does not certify products.

The ENERGY STAR program, as of January 1, 2011, requires that any Dishwasher enrolled in the ENERGY STAR program be part of a third-party **Verification Program**. The selection process for AHAM is based on a sampling rate of 10% of each **Participant's Basic Models** with targeted selection requests by **Government Stakeholders** and the remaining selected randomly. The AHAM Dishwasher **Verification Program** has been recognized as a Verification Administrator for ENERGY STAR.

Verification of a product's stated energy consumption is typically conducted through random selection and testing of products already on the market. The AHAM **Program** provides a uniform and commercially practical verification of Dishwasher, Annual Energy Consumption (including Standby Power) and Water Consumption values. The intent of this industry **Program** is to verify the claims for all dishwashers models are consistent with the claims values certified to the ENERGY STAR by a **Manufacturer** or **Private Brand Owner**. The **Program** cannot and will not enforce a product's compliance with energy efficiency standards or other voluntary program requirements.

Participation in the **Program** is voluntary. An independent EPA-recognized, ISO/IEC 17025 (latest edition) accredited third party test laboratory under contract to AHAM provides verification and challenge testing based on the EPA ENERGY STAR Product Specification for Residential Dishwasher version 6.0 and DOE **Test Procedure** (10 C.F.R. Part 430, Subpart B, Appendix C1), with additional specificity provided by approved interpretations consistent with the DOE **Test Procedure**.

To participate in this **Program**, a **Participant** must list with AHAM all ENERGY STAR qualified models in production consistent with EPA ENERGY STAR **Qualified Product List (QPL)** and meet the requirements of 16 CFR 305.11(a)(1), unless the models are outside the scope of the **Verification Program Test Procedure**.

The AHAM **License Agreement (Agreement)** is a contract between the **Participant** and AHAM and is the governing document for participation in this **Program**. This Procedural Guide is an extension of, and is incorporated into, the Agreement and provides for the administration and uniform execution of the **Program**. General information and procedural details are included in this Procedural Guide. AHAM's **Major Appliance Verification Steering Committee (MAVSC)**, with oversight from the AHAM **Legal Operations Advisory Council (LOAC)** as needed, and at their sole discretion, may revise the Procedural Guide if such revision is deemed necessary, or as requested by DOE and EPA.

**For additional information, contact:**

Association of Home Appliance Manufacturers

1111 19th Street, NW

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Washington, DC 20036

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*In all Instances the term, **Test Procedure** references the Procedure found at 10 CFR Part 430 Subpart B, Appendix C1. In addition to the definitions found in AHAM **Verification Program** Procedural Guide Part 1, the following definitions apply:*

## **1. Definition of Terms**

The text of the AHAM Verification Program Procedural Guide Part 1 is amended as follows:

All references to 10 CFR Part 430, Subpart B are amended to include Appendix C1. This will be noted throughout the Part 2 as the **Test Procedure** Amendment. The texts of definitions from 10 C.F.R. 430.2 and Part 430, Subpart B shall apply.

### **1.19 PROGRAM**

The text of the AHAM Verification Program Procedural Guide Part 1 is amended as follows:

The term AHAM **Verification Program** is replaced with AHAM Dishwashers **Verification Program**.

### **1.25 PROGRAM YEAR**

The Program year for the AHAM Dishwashers **Verification Program** is January 1 through December 31.

### **1.26 QUALIFICATION**

In addition to the **Test Procedure** Amendment referenced in Item 1, the text of the AHAM Verification Program Procedural Guide Part 1 is amended as follows:

The term claims is replaced with Annual Energy Consumption (including Standby Power) (kWh/yr) and Water Consumption (gallons/cycle).

### **1.33 TEST PROCEDURE**

The text of the AHAM Verification Program Procedural Guide Part 1 is replaced with the following:

Verification and challenge testing will be based on the EPA ENERGY STAR Product Specification for Residential Dishwasher version 6.0 and DOE **Test Procedure**, 10 C.F.R. Part 430, Subpart B, Appendix C1, any waivers issued by DOE, Letters of Instruction issued by the AHAM Verification Department, with additional specificity provided by approved interpretations originating with the DOE **Test Procedure**. All **Test Procedure** interpretation questions arising during the course of verification and challenge testing will be referred to DOE for an official response.

### **1.33.1 Test Method to validate Demand Response**

The Demand Response feature of a **Connected Model** shall be validated according to the applicable ENERGY STAR Test method to Validate Demand Response specified in the EPA ENERGY STAR Product Specification for Residential Dishwasher version 6.0, Section 5, G.

### **1.33.2 Validation of Connected functionality for Connected Allowance**

For Connected Models, compliance with Connected Functionality shall be validated According to the appropriate section(s) of the EPA ENERGY STAR Product Specification for Residential Dishwasher version 6.0, Section 5, A.

## **1.36 VERIFICATION REQUIREMENTS**

Test results shall be evaluated to the requirements of Version 6.0 of the ENERGY STAR specification for Dishwashers which includes Connected Product Criteria.

## **2. Program Scope**

The text of the AHAM Verification Program Procedural Guide Part 1 is clarified as follows:

**Reported claims will be Annual Energy Consumption (Including Standby Power) (kWh/yr) and Water Consumption (Gallons/Cycle).**

### **2.1 FACTORS VERIFIED**

The text of the AHAM Verification Program Procedural Guide Part 1 is clarified as follows:

The factors verified are Annual Energy Consumption (including Standby Power) (kWh/yr) and Water Consumption (gallons/cycle).

### **2.2 ELIGIBLE MODELS**

The text of the AHAM Verification Program Procedural Guide Part 1 is amended to include the following:

The term claims are replaced with Annual Energy Consumption (including Standby Power) (kWh/yr) and Water Consumption (gallons/cycle).

## **3. Program Requirements**

The text of the AHAM Verification Program Procedural Guide Part 1 applies.

## **4. Program Funding**

The text of the AHAM Verification Program Procedural Guide Part 1 applies.



## 5. Verification Procedure

The text of the AHAM Verification Program Procedural Guide Part 1 is amended as follows:

### 5.4 VERIFICATION AND EVALUATION METHOD

Per 1.36, the Version 6.0 ENERGY STAR Residential Dishwashers – April 29, 2015 is the method that will be verified.

Annual Energy Consumption (AEC) shall be less than or equal to Maximum Annual Energy Consumption (AECMAX), as calculated per Equation 1 in the specification.

### 5.5 FINDING OF COMPLIANCE WITH ENERGY STAR REQUIREMENTS

When verification test results indicate that the verified rating (rounded as noted below) is less than or equal to 105.0% of the ENERGY STAR requirement for the requirements, verification is automatically established for the model tested and models within the same **Basic Model**.

These **Tolerances** are to allow for variations in testing that inevitably occur in any given laboratory facility, variations between laboratories, and variations in components. They are not to be used to rate a given model at values better than the expected average value of all **Units** from the assembly line.

#### 5.5.1 Annual Energy Consumption

The Annual Energy Consumption calculated for any production Unit shall not be greater than 105.0% of the value required by the ENERGY STAR Product class

**Example 1:** If the **Program Laboratory** measures energy consumption of a product at 550 kWh/year and the product requirement is 500 kWh/year, it will be considered out of allowed **Tolerance** (105.0% would be 525 kWh/year or less).

**Example 2:** If the **Program Laboratory** measures energy consumption of a product at 450 kWh/year and the product requirement is 500 kWh/year, the product is considered to be within **Tolerance**.

*Informative Note: Based on 10 CFR Part 430.23(c)(2), the Annual Energy Consumption expressed in kilowatt-hours per year must be rounded to the nearest kilowatt-hour per year.*

### **5.5.2 Water Consumption**

Water Consumption measured during a verification test shall not be greater than 105.0% of the value required by the ENERGY STAR Product class.

*Informative Note: Based on 10 CFR Part 430.23 (c)(3), the sum of the water consumption,  $V$ , and the water consumption during water softener regeneration,  $VWS$ , expressed in gallons per cycle and defined in section 5.4 of appendix C1, must be rounded to one decimal place.*

## **5.6 NOTIFICATION OF VARIATION FROM CERTIFIED VALUES**

The intent of the industry is to assure that the Average Energy Consumption and Water Consumption for **Units** produced by each **Participant** is 100% of the certified rating.

### **5.6.1 Annual Energy Consumption**

Annual Energy Consumption measured during a verification test shall not be greater than 105.0% of the value listed on ENERGY STAR **QPL**.

### **5.6.2 Water Consumption**

Water Consumption measured during a verification test shall not be greater than 105.0% of the value listed on ENERGY STAR **QPL**.

Note: The Program Laboratory will conduct tests and evaluate test data within the framework of the Standard, License Agreement, and this Procedural Guide. It is the responsibility of each Participant to rate Units in accordance with these documents and applicable government regulations

The potential variation with the reported certified ratings for Annual Energy Consumption, in kWh/year, and Water Consumption, in gallons per cycle are included on the test report. The test report is sent to the Participant and AHAM.

## **5.7 FINDING OF NON-COMPLIANCE WITH ENERGY STAR**

For a potential non-compliance, see clause 5.7 of AHAM Verification Program Procedural Guide Part 1.

## **6. Challenge Procedure**

The text of the AHAM Verification Program Procedural Guide Part 1 applies, with the clarification that the claims are Annual Energy Consumption (including Standby Power) (kWh/yr) and Water Consumption (gallons/cycle) as appropriate to the challenge.

## **7. Proper Use of the Verification Claims**

The Text of the AHAM Verification Program Procedural Guide Part 1 is applicable.

**APPENDIX A: AHAM DISHWASHER VERIFICATION PROGRAM LICENSE  
AGREEMENT**

This Agreement, made this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between ASSOCIATION OF HOME APPLIANCE MANUFACTURERS (AHAM), a not-for-profit business association incorporated in the State of Illinois, having its principal office at 1111 19th Street, N.W., Suite 402, Washington, DC 20036, hereinafter called Licensor, and \_\_\_\_\_ having its principal offices at the following location (full address) \_\_\_\_\_, hereinafter called Licensee.

**WITNESSETH:**

WHEREAS, The U.S. Department of Energy (DOE) has promulgated a Test Procedure for determining certain performance characteristics for Dishwashers in the USA;

WHEREAS, Licensor is the sponsor of a Verification Program in the USA (Verification Program or Program) in support of the acceptance and use of that standard and the procedures set forth in the Procedural Guide (s), all in the public interest, to the end that public confidence in said performance characteristics may be effectively promoted;

WHEREAS, Licensee wishes to participate in said Verification Program;

NOW, THEREFORE, it is agreed by and between the parties hereto as follows:

**LICENSEE:**

A.1. Shall, upon the signing of this Agreement, have (1) the same person signing this Agreement on its behalf and (2) the engineer designated by such person sign and submit to Licensor the Certification Affidavit attached hereto as Exhibit A.

A.2. Shall abide by and comply with all provisions of the Procedural Guide (s) developed by AHAM for the implementation of the Verification Program.

A.3. Shall abide by, comply with and have the right to be apprised of all decisions made by the governing AHAM product council or committee which affect this Verification Program. This product council/committee shall meet periodically with AHAM staff for communication, advice and counsel on the operation of the Verification Program, and shall determine all policy for the Verification Program.

A.4. Shall abide by the following Verification Program Payment Policy: For verification program participants, if invoices are not paid within 90 days after the invoice date, the participant will be given written notice that they have an additional 45 days to become current, or it will result in termination from the program. If a terminated company wishes to rejoin the program, it will be required to pay all outstanding invoices, and a full year program fees in advance.

**LICENSOR AND LICENSEE:**

B.1. Agree that the Procedural Guide (s) is an extension of this License Agreement, provides all necessary details for participation in the Verification Program and is incorporated by reference into this Agreement. Agree that Licensor has the right in its sole discretion to make changes to any aspect of the Procedural Guide (s) and Licensee will be bound by those changes. Revisions to procedures which become effective before the Procedural Guide (s) is reprinted will be outlined in Letters of Instruction from Licensor to Licensees; such letters will automatically amend the Procedural Guide (s) upon issuance.

B.2. Agree that this Agreement shall extend for an initial period of one (1) year and shall be automatically renewable for successive additional periods of one (1) year each unless either party, at least thirty (30) days prior to the date of expiration, gives notice in writing that it does not wish the Agreement to be renewed; provided, however, that either Licensor or Licensee may terminate this License Agreement upon sixty (60) days' written notice to the other party.

B.3. Agree that in the event that Licensee defaults under this Agreement, Licensor may immediately exclude Licensee from the Program by written notice sent by certified mail to Licensee. Under such circumstances, this Agreement will be considered void upon the date of Licensee's receipt of said written notice, and the remaining provisions concerning exclusion of a Licensee outlined in the Procedural Guide (s) shall be followed.

B.4. Agree that the initial data on Licensee's certified rating(s) for models subject to the Program as submitted to the independent testing laboratory under contract to Licensor on forms provided by that

laboratory (see the Procedural Guide (s) shall not be treated as confidential by either the laboratory or Licensor.

B.6 Except as provided in this paragraph, Licensee agrees to indemnify and hold harmless AHAM, its board of directors, officers and employees, their successors and assigns, for and from any and all claims, demands, lawsuits, judgments, contracts, debts, and expenses (including reasonable attorney's fees), of any kind or nature, whether at law or in equity, arising out of or in connection with the Licensee's participation in the AHAM Dishwashers Verification Program (including, but not limited to, a Licensee's conduct constituting a breach of this agreement and license), and/or the manufacture, design, information for use, warranties and representations, and use of Licensee's Dishwashers. No claim for indemnity under this paragraph shall be effective until Licensee has received from AHAM written notice of the claim for which AHAM believes it is entitled to indemnification hereunder. Licensee shall promptly reimburse AHAM for all costs and expenses incurred in defending AHAM against any such claims, demands, causes of action, or liability, including, but not limited to, attorney's fees. This indemnification shall survive termination of this agreement and license.

AHAM affirmatively disclaims any obligation to indemnify or hold harmless the Licensee from any and all claims, demands, lawsuits, judgments, contracts, debts, and expenses (including attorney's fees), of any kind or nature, whether at law or in equity, arising out of or in connection with any claims asserting infringement of a third party's trademark. In the event a third party files a claim against the Licensee asserting infringement of a third party's trademark, Licensee is required to provide AHAM with written notice of the claim within 14 days. AHAM will consider, in good faith but without obligation and in its sole discretion, whether it is appropriate to assist, intervene, indemnify or take any action with respect to the reported claim.

B.7. Licensee acknowledges that it is responsible for compliance with laws or other requirements relating to the products and ratings under this program and shall indemnify and hold harmless Licensor for any violations of such laws or requirements

B.8. The interpretation of this Agreement and the parties' performance there under shall be governed by the laws of the District of Columbia.

B.9. In the event that any part or parts of this Agreement and/or the Procedural Guide (s) are found to be void, the remaining provisions shall nevertheless be binding, to the extent practicable, with the same effect as though the void parts were deleted.

B.10. This Agreement, being the final and complete understanding between the above parties, supersedes and nullifies all prior agreements.

**Dishwashers Verification Program  
LICENSE AGREEMENT**

To be signed by AHAM President:

ASSOCIATION OF HOME APPLIANCE MANUFACTURERS (Licensor)

Signed by:

\_\_\_\_\_   
 Joseph M. McGuire, AHAM President & CEO

Date:

\_\_\_\_\_

To be completed by Licensee:

Company Name \_\_\_\_\_ (Licensee)

Print Name:

\_\_\_\_\_

Title:

\_\_\_\_\_

Date:

\_\_\_\_\_

**Exhibit A**  
**CERTIFICATION AFFIDAVIT**  
**(To be completed by Licensee)**

The undersigned hereby certify and state, on behalf of \_\_\_\_\_  
\_\_\_\_\_ (Licensee) that the ratings of Annual Energy Consumption (including Standby Power) (kWh/yr) and Water Consumption (gallons/cycle) for Dishwasher models submitted for Verification under the foregoing program by said Licensee are accurately determined and stated in accordance with the DOE Test Procedure (10 CFR Part 430, Subpart B, Appendix C1), with additional specificity provided by approved interpretations consistent with the DOE Test Procedure.

To be completed by Engineer [Reference Section A.1 (2)]:

Signed by: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

To be completed by same individual that signed the License Agreement on page 3 [Reference Section A.1 (1)]:

Signed by: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



## Exhibit B

### PRIMARY CONTACT FOR TECHNICAL ISSUES

(Note: All verbal and written communications will be in English)

COMPANY:	
NAME:	
TITLE:	
E-MAIL:	
PHONE NUMBER:	
FAX NUMBER:	
MAILING ADDRESS:	
COUNTRY:	

### PRIMARY CONTACT FOR INVOICING/BILLING/PAYMENT

(Note: All verbal and written communications will be in English)

COMPANY:	
NAME:	
TITLE:	
E-MAIL:	
PHONE NUMBER:	
FAX NUMBER:	
MAILING ADDRESS:	
COUNTRY:	

**SECONDARY CONTACT FOR ADMINISTRATIVE ISSUES**

(Note: All verbal and written communications will be in English)

COMPANY:	
NAME:	
TITLE:	
E-MAIL:	
PHONE NUMBER:	
FAX NUMBER:	
MAILING ADDRESS:	
COUNTRY:	

**SECONDARY CONTACT FOR INVOICING/BILLING/PAYMENT**

(Note: All verbal and written communications will be in English)

COMPANY:	
NAME:	
TITLE:	
E-MAIL:	
PHONE NUMBER:	
FAX NUMBER:	
MAILING ADDRESS:	
COUNTRY:	

**APPENDIX B: AHAM DISHWASHERS VERIFICATION PROGRAM  
CHALLENGE REQUEST FORM**

<b>Date of Request:</b>	
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<b>Brand Name:</b>		<b>Model Number:</b>	
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<b>Manufactured By:</b>		<b>Manufactured For:</b>	
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Reason for Challenge (check all that apply):		Required Information for Submittal
Annual Energy Consumption		Reason for challenge Test data or calculations to support challenge
Water Consumption		Reason for challenge Test data or calculations to support challenge

<b>Participant Approval</b>	
<b>AHAM Approval</b>	
<b>Laboratory Approval</b>	

## APPENDIX C: EXAMPLE PROGRAM PRODUCTION SURVEY

### CONFIDENTIAL

#### AHAM DISHWASHER PROGRAM PRODUCTION SURVEY

**Date:** July 1, 2019  
**TO:** Dishwashers Verification Program Participants  
**FROM:** Randy Cooper, Vice President, Technical Operations & Standards  
**CA:** Charles Samuels  
**RE:** **CERTIFIED PRODUCTION SURVEY**  
**ACTIONS** (1) Confirm receipt to AHAM ([amartin@aham.org](mailto:amartin@aham.org)) upon delivery.  
**REQUESTED:** (2) Complete and return to AHAM ([accounting@aham.org](mailto:accounting@aham.org)) by **July 31, 2018**

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The AHAM Dishwashers Verification Program requires that participants in the program complete a Certified Production Survey annually so that testing and participation fees for the upcoming calendar year (2020) can be accurately determined. **The information provided in the survey is kept confidential within AHAM.**

Attached is a survey sheet to be completed with your actual certified sales volume and number of ENERGY STAR® qualified Basic Models of Dishwashers for the twelve-month period of July 1, 2018 through June 30, 2019. Participants will be required to pay the initial estimated testing fees at the beginning of each program year. Participation fees will be invoiced quarterly during the calendar year based on the fees shown on the attached survey form.

Please note that Officer Verification is required to verify all figures reported to AHAM Verification Programs for accuracy and completeness.

As indicated on the INSTRUCTIONS sheet (page 2), please:

1. Confirm receipt of this form to Angela Martin ([amartin@aham.org](mailto:amartin@aham.org)) upon delivery; and
2. Complete and return the enclosed confidential survey and Officer Verification (pages 3 - 6) by **July 31, 2019** to AHAM's Accounting Department at [Accounting@aham.org](mailto:Accounting@aham.org).

*The Production Surveys are due within thirty (30) business days from the date it was sent to the Participant or as agreed to with the Participant.*

If you believe that the survey should be directed to someone else within your organization, please forward the survey to that individual and immediately notify Angela Martin via e-mail at [amartin@aham.org](mailto:amartin@aham.org). Thank you for your cooperation.

## INSTRUCTIONS

1. Confirm receipt of this production survey to Angela Martin via e-mail at [amartin@aham.org](mailto:amartin@aham.org) upon receipt.
2. Review instructions and guidelines.
3. Fill out the Production Survey Form as described on the form.
4. Update the Company contact information
5. Update the "Send invoices to" information.
6. Have an officer execute the Officer Verification Form.
7. Return Production Survey Form and Officer Verification Form by **July 31, 2019** to:

E-MAIL: [accounting@aham.org](mailto:accounting@aham.org) (scan and send)

AHAM Accounting Department  
Association of Home Appliance Manufacturers  
1111 19<sup>th</sup> Street N.W., Suite 402  
Washington, D.C. 20036  
FAX: (202) 872-9354

## **GUIDELINES FOR SOURCED MODEL PRODUCT REPORTING**

Please use the following guidelines to determine which entity involved in a sourcing agreement is responsible for reporting and ensuring payment of the verification program fees.

1. All models in production consistent with EPA ENERGY STAR QPL, by a Participant of an AHAM Verification Program are to be included in the Program, regardless of the Original Equipment Manufacturer.
2. If a Participant buys product from another Participant, the manufacturing Participant is responsible for the resulting Program fees and must include the sourced models in its own production figures.
3. If a Participant buys product from a non-Participant, the Participant is responsible for the resulting Program fees and must therefore include the sourced models in its product figures (i.e., count sourced models as their own production).
4. A retailer who is a private brand owner and purchases models from both Participant and non-Participant manufacturers may be a Program Participant. Such a Participant must claim the models manufactured by a non-Participant as its production and will be responsible for all fees associated with these models.
5. In the case of an alternative arrangement (i.e., purchasing Participant agrees to pay the Program fees), the purchasing Participant has the ultimate responsibility of ensuring the sourced product production data is properly reported and Program fees are paid.
6. ENERGY STAR qualified models sourced from OEM's that are not Licensees of the AHAM Program must be included in the Participants Model Submission Form.

## **APPENDIX D: Applicable Letter of Instructions (LOI's)**

The below LOI's are applicable to testing of Dishwashers:

1. LOI # 19 EPA Selection Tree – COVID-19 (92803)