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Description:	This document was embedded in the AHAM Part 6 Procedure Application, and compares the procedural requirements of AHAM's Kitchen Range Hood Directory Program to HVI's Directory Program.
Filer:	Peter Strait
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HVI Clause Number	HVI Participation Requirement/Product Requirement or HVI Listed Information	AHAM Participation Requirement/Product Requirement or AHAM Listed Information	AHAM Clause Number	Comments
2.0	Scope			
	This procedure covers certification of residential (home) ventilation products for which HVI has adopted a certification program. This procedure covers those product performance parameters (including, but not limited to airflow, sound level, and energy performance) for which HVI has adopted a certification program	The Program will certify the CFM & Sound for range hoods per HVI 920. For range hoods participating in the ENERGY STAR program, the AHAM Program will verify the CFM/Watt ratio, Sones level, and Standby Power.		Both programs are looking at airflow(CFM) and sound. However the AHAM program is smaller in scope as it only covers range hoods. Additionally, AHAM's process supports ENERGY STAR Verification for range hoods.
3.0	Definitions			
	A detailed definition by definition analysis is done in the map. Equivalent refers to the same wording which means the same definition (i.e....same meaning). There are some definitions as noted that AHAM does have additional information but this is to provide linkage to AHAM terms or supplemental information to support Verification work for EPA. There are numerous definitions that HVI uses that are not in the AHAM list because HVI's definitions apply to products other than kitchen range hoods which the AHAM program does not cover			
4.0	General Certification requirements			
4.1	All parties seeking HVI certification must execute the HVI Certified Ratings Program Participation Agreement	Licenses enter the Program by having an authorized company representative sign a License Agreement with AHAM and remitting all necessary initiation fees.	5.1.1	Both programs have an agreement to enter into the program. Both deal with costs and expectations of the participant. HVI then refers to members and non-members whereas AHAM refers to the licensee. There is no impact from an equivalency standpoint of information that is certified or placed in directory.
4.2	HVI product performance certification begins with standardized testing in accordance with HVI procedures using the most precise and repeatable methods available for the type of products involved. Testing is based on methods described in consensus-based testing Standards, carried out under narrowly prescribed testing procedures at an HVI designated third party laboratory. For details, refer to other HVI Publications and the standards on which they are based.	All models must have established CFM & Sound ratings based on AHAM HRH-2 Standard (latest edition) before entering the Program. This testing must be performed by either the Program Laboratory or an approved Alternate Test Facility. Payment to the laboratory for such testing is the responsibility of the Licensee and is to be handled strictly between the laboratory and the Licensee. See Section 5.1.4 for more details	5.1.3.2	Both processes start with established ratings for products. 5.1.3.2 requires that the product have established values before it can enter the program. 5.1.3.2 refers to HRH-2 which refers to HVI procedures. The clause also refers to proper labs that produced the data.
4.2.1	When a model number is to be HVI Certified for more than one parameter such as air and sound, a single product shall be used for all certification testing and no alterations between tests is permitted.	To establish the CFM & Sound ratings, at least one production unit or one prototype model must be submitted to the Program Laboratory or approved Alternate Test Facility to ascertain certified ratings per 5.1.4. Minimum/Maximum Certified Rating values will be displayed on Form RH-7: Notice of Minimum/Maximum Certified Rating	5.1.3.3	Both processes require one unit to be the basis of certification.
4.8	Product certification is voluntary and can be selectively elected for models within a product category. Certifications are non-transferable between products. (Refer to Section 4.26.1.)Product certification is voluntary and can be selectively elected for models within a product category.... All range hood models in production in a new participant's product line that they wish to have in the directory on and after the date the License Agreement is signed must be certified. Certifications are not transferrable between products.	2.12 & 5.1.2	AHAM has the same requirements spread across the document but the same wording is in place in both processes.
4.18	Safety Listing. HVI Certified products shall be listed or certified for safety with a recognized laboratory if an applicable program exists for the category.	Evidence of listing by a safety agency (such as Underwriters Laboratories).	5.1.5.4	Safety is not the responsibility of the AHAM program. The safety listing requirement is already established by NEC 422.6 so nothing further is required by HVI or AHAM in regards to range hoods. The NEC became a requirement in the 2017 version of the Electrical Code which came after the HVI publications. However, AHAM does have clause 5.1.5.4 where evidence of listing is needed.
4.19	HVI Label and Ratings Markings. The HVI Certified Label shall be affixed to all HVI Certified products, and the HVI Certified ratings shall appear in conjunction with it. See HVI Publication 925 for details regarding the HVI Certified Label and its use.	3.3.9 Display a facsimile of The Mark on the packaging of each certified model sold in the United States. Display a facsimile of The Mark on models included within the AHAM Range Hood Certification Program that are sold in the United States and Canada, identifying its certified ratings.	3.3.9	Additionally, AHAM requirements match HVI policies on their mark. Marking is required per Section 7 of the AHAM PG and Appendix D for the marking requirements of the AHAM Verifide Mark. Both HVI and AHAM marking requirements have been created with the help of lawyers who assure that the requirements meet the legal requirements for registered trademarks.
4.22	Every HVI Certified product shall have a production date code. The date code is usually the same one as safety listing organizations already require on every product. HVI shall verify compliance with this provision and remind and/or enforce it at appropriate opportunities including verification and challenge.	not any	NA	Safety and production date code is not the responsibility of the AHAM program. The safety listing requirement is already established by NEC 422.6 so nothing further is required by HVI or AHAM. The production date information is a requirement for Safety CB listing and their tracking. HVI's publications were before the 2017 National Electrical code update that added 422.6 so HVI's manual is now duplicative and stating a requirements where they have no jurisdiction. AHAM chooses to let the safety CB listing handle this product requirement.
4.23.	The HVI Normalized Airflow Curve is a standard method of representing an HVI Certified product's airflow performance at static pressures in addition to the standard static pressure rating point for the category. Due to HVI-prescribed rounding, the test report airflow curve must be "normalized" for it to agree with the HVI Certified rating(s). For a description of the procedure for development of an HVI-acceptable normalized airflow curve, see Appendix I. The normalized airflow curve has several purposes including those described below.	The Normalized Airflow Curve is a standard method of representing a product's airflow performance at static pressures in addition to the standard static pressure rating point for the category. Due to prescribed rounding, the test report airflow curve must be normalized for it to agree with the provided certified rating(s). For a description of the procedure for development of an acceptable normalized airflow curve, see HVI 920 Appendix I.	2.1	Same wording. As this was developed by HVI, the AHAM PG refers directly to HVI 920 for specifics.

	HVI shall publish all certified ratings as soon as practical after issuance, but not before the date requested by the Member. A product becomes certified when HVI publishes its ratings. If queried, HVI shall provide certified ratings, and whether they are current, valid, and in good standing. HVI shall not release any other information about any product's certification without the Member's consent.	2.4...AHAM will maintain a listing of all current certified models. This list will be displayed in the on-line Directory of Certified Range Hoods. This listing will be made available to anyone requesting it and will be updated monthly. A PDF version of the Directory is published quarterly in January, April, July and October. The AHAM online Directory is updated at least monthly..... RH-1 form serves as the authorization for AHAM to publish the models' certified values, and includes specifying publication date		AHAM's and HVI's processes differ slightly in this area. Both publish the information when it is available and quickly as practical. AHAM has stated cadence on how often they will publish.
4.26		5.1.6.1. After issuing certification, and after the Licensee-requested earliest date of publication, AHAM & the program lab are free to communicate the certified ratings and will publish the ratings in the next edition of the AHAM Verifide Directory.	2.4 & 5.1.6..1	
Certification				
A detailed clause by clause ("apple to apple") comparison is shown below to provide confidence that the certification process is the same between the two processes. The information that is being certified is the same except for where wording changes are needed to be understandable in the AHAM process.				
5.0 Procedure for Certifying Base Models				
5.1.1.	Preparation. Preparation of a product for testing may include certain mountings, etc., as described in the HVI test procedures. The product shall not be specially prepared or tuned because ratings represent performance of production products.	Preparation. Preparation of a product for testing may include certain mountings, etc., as described in the HVI 915 or 916 test procedures. The product shall not be specially prepared or tuned because ratings represent performance of production products.	5.1.4.1	same wording AHAM calls out HVI procedures so there is no confusion
5.1.2.	Submittal. HVI Members shall submit the product to an HVI-designated testing laboratory for HVI product certification testing. The HVI Member shall designate the desired tests and the ratings that the Member expects to certify.	Submittal. Program Licensees shall submit the product to an AHAM-designated testing laboratory for product certification testing. The licensee shall designate the desired tests and the ratings that the licensee expects to certify. Required forms such as test submittal data sheet and/or testing agreement or contract can be obtained directly from each AHAM designated laboratory.	5.1.4.2	same wording - AHAM uses term = licensee term whereas HVI uses the term = member
5.1.2.1.	Required forms such as test submittal data sheet and testing agreement or contract can be obtained directly from each HVI-designated laboratory	Laboratory testing. The AHAM-designated laboratory shall test in accordance with AHAM HRH-2 and it's foundational standards.	5.1.4.3	same wording - AHAM points to HRH-2 which is attached in the application and it references HVI 915 & HVI 916
5.1.3.	Laboratory testing. The HVI-designated laboratory shall test in accordance with the current HVI test procedure publications and their foundational standards.	Test Report. The laboratory shall furnish the licensee a copy of a test report that includes the model number of the product tested, performance data, sufficient photographs to document the test set-ups, and any other item appropriate to the product and test.	5.1.4.4	same wording
5.1.4.	Test Report. The laboratory shall furnish the Member a copy of a test report that includes the model number of the product tested, performance data, sufficient photographs to document the test set-ups, and any other item appropriate to the product and test.	Test Report. The laboratory shall furnish the licensee a copy of a test report that includes the model number of the product tested, performance data, sufficient photographs to document the test set-ups, and any other item appropriate to the product and test.	5.1.4.5	same wording - AHAM uses term = licensee term whereas HVI uses the term = member
5.1.5.	Fees for testing. Fees for product certification testing are to be paid directly to the testing laboratory by the Member requesting the testing. Laboratory testing fee schedules are negotiated by HVI from time to time and a copy of the current fee schedule is available from HVI.	Fees for testing. Fees for product certification testing are to be paid directly to the testing laboratory by the licensee requesting the testing. Laboratory testing fee schedules are negotiated by AHAM from time to time and a copy of the current fee schedule is available from AHAM.	5.1.5.	same wording - AHAM uses term = licensee term whereas HVI uses the term = member
5.2	Application for certification. The Member who submitted the product for testing will ensure submission of the following items to HVI in application for certification.	Application for certification. The licensee who submitted the product for testing will ensure submission of the following items to the program lab in application for certification.	5.1.5.1	Same wording. AHAM notes if the test report does not come the program lab and uses AHAM instead of HVI
5.2.1	A copy of the complete test report, including sufficiently clear copies of the photographs to document the test setup, shall be requested from the testing laboratory to be sent directly to HVI. HVI will not accept lab reports which are not provided directly from the HVI-designated laboratory.	(If testing was not completed at the program lab) A copy of the complete test report, including sufficiently clear copies of the photographs to document the test setup, shall be requested from the testing laboratory to be sent directly to program laboratory. AHAM and the program lab will not accept lab reports which are not provided directly from the AHAM-designated laboratory.	5.1.5.2	AHAM uses its forms instead of on-line HVI forms
5.2.2	A completed Request for HVI Certification of a Product. The online form is available to authorized companies.	A completed Request for Certification of a Product. The forms required are the RH-1 (Model Data/Model Submission Form (MSF)) and RH-7(Notice of Minimum/Maximum Certified Rating) forms.	5.1.5.2.1	Same wording. AHAM program is just range hoods with dedicated forms so reference to appendices is not needed.
5.2.2.1	Information required includes the name of the company requesting certification, the brand name of the product, the model number of the product, the test report identification number and date, the specific performance certification ratings requested for all applicable parameters, and the earliest date the Member wishes HVI to communicate the ratings. See the Appendices for product- and parameter-specific requirements.	Information required includes the name of the company requesting certification, the brand name of the product, the model number of the product, the test report identification number and date, the specific performance certification ratings requested for all applicable parameters, and the earliest date the licensee wishes AHAM to communicate the ratings.	5.1.5.3	same wording
5.2.3.	Sales literature, or product specification sheet, describing the product tested (may be submitted later if not available at the time).	Sales literature, or product specification sheet, describing the product tested (may be submitted later if not available at the time).	5.1.5.4	same wording.
5.2.4.	Evidence of listing by a safety agency (such as Underwriters Laboratories).	Evidence of listing by a safety agency (such as Underwriters Laboratories).	NA	Safety is not the responsibility of the AHAM program. The safety listing requirement is already established by NEC 422.6 so nothing further is required by HVI or AHAM.
5.2.4.1.	Because of sequence, safety listing may not be available at the time HVI certification is requested. HVI is not required to withhold initial certification for failure to provide proof of safety listing. However, HVI shall verify safety certification whenever a product is picked up in the field for verification or challenge. HVI may verify safety listing or certification by calling the safety agency for confirmation at any time.	Not any	5.1.6	same wording.
5.3.	Issuance of certification. HVI will review the materials submitted and if all requirements have been met, and if everything is in order, will issue certification.	Issuance of certification. The Program Lab will review the materials submitted and if all requirements have been met, and if everything is in order, will issue certification.	5.1.6.1	Same wording except when AHAM terms were used in place of HVI terms
5.3.1.	Communication and publication of certified ratings. After issuing certification, and after the Member-requested earliest date of publication, HVI is free to communicate the certified ratings and will publish the ratings in the next edition of the HVI-Certified Home Products Directory. (Not Listed = Not Certified.)	Communication and publication of certified ratings. After issuing certification, and after the Licensee-requested earliest date of publication, AHAM & the program lab are free to communicate the certified ratings and will publish the ratings in the next edition of the AHAM Verifide Directory. (Not Listed = Not Certified.)	5.1.7.1.1	Same wording except when AHAM terms were used in place of HVI terms
6.0 Certifying Derived Model Numbers – Requirements and Procedures				
6.1.1.	A Member may make application for certification of a "derived" model, basing the request on the test and ratings of a certified base model for which the Member already holds HVI Certification.	A licensee may make application for certification of a "derived" model, basing the request on the test and ratings of a certified basic model for which the licensee already holds AHAM Certification.	5.1.7.1.1.1	Same wording except when AHAM terms were used in place of HVI terms
6.1.1.1.	A group of models that have a base and derived relationship because their HVI Certification is based on the same test report are called a "family" of products in this publication	A group of models that have a base and derived relationship because their AHAM Certification is based on the same test report are called a "family" of products in this publication. See Definition 1.19.	5.1.7.1.1.1	Same wording except when AHAM terms were used in place of HVI terms

6.1.2	The derived model may be certified if it only differs from the base model in aspects which do not adversely affect the product's HVI-Certified performance ratings, such as color, finish, name plate, or other similar variances. As with all certification, the Member's confidence in the model's performance is required.	The derived model may be certified if it only differs from the basic model in aspects which do not adversely affect the product's certified performance ratings, such as color, finish, name plate, or other similar variances. As with all certification, the Licensee's confidence in the model's performance is required. See definition 1.14.	5.1.7.1.2	Same wording except when AHAM terms were used in place of HVI terms
6.1.3	Derived model certification shall not be used to avoid testing products that differ significantly from the base model.	Derived model certification shall not be used to avoid testing products that differ significantly from the basic model.	5.1.7.1.3	Same wording except when AHAM terms were used in place of HVI terms
6.1.4	Performance, test, and rating representation issues with one model number in a family of model numbers shall result in the appropriate effect for the entire family because one test is the basis of the entire family's certification. (i.e., references to a model number within this procedure, including verification and challenge, apply to its entire family.)	Performance, test, and rating representation issues with one model number in a family of model numbers shall result in the appropriate effect for the entire family because one test is the basis of the entire family's certification. (i.e., references to a model number within this procedure, including verification and challenge, apply to its entire family.)	5.1.7.1.4	same wording
6.1.4.1	In the specific case of a failed verification or challenge test resulting in withdrawal or re-certification of the failed model number or its ratings, the entire family shall be withdrawn or must be re-certified.	The process for withdrawal is outlined in clause 5.2.9.5. In the specific case of a failed verification or challenge test resulting in withdrawal or re-certification of the failed model number or its ratings, the entire family shall be withdrawn or must be re-certified.	5.1.7.1.4.1	Same wording except when AHAM terms were used in place of HVI terms
6.1.4.1.1	Exception: If a de-rated derived model passes verification or challenge tests, but test results would not be passing for other models in the family that are not de-rated, those other model numbers shall not be considered to have failed unless they do not meet their specific HVI-Certified rating. Those other models may be subjected to a verification test. (Exception: ERV and HRV, see Appendix III.)	Exception: If a de-rated derived model passes verification or challenge tests, but test results would not be passing for other models in the family that are not de-rated, those other model numbers shall not be considered to have failed unless they do not meet their specific Certified rating. Those other models may be subjected to a verification test.	5.1.7.1.4.1.1	same wording
6.1.5	An HVI Member may make application for certification of a derived model for another HVI Member based on the first Member's base model. (private label certification is permitted.)	As stated in clause 2.12 which explains private label certification is permitted. A licensee may make application for certification of a derived model for another set of data based on the first licensee's base model.	5.1.7.1.5	Same wording except when AHAM terms were used in place of HVI terms
6.1.6	An HVI Member may make application for certification of a derived model for a non-Member based on the Member's base model. The Member then assumes responsibility for any problems and enforcement. Non-Member private label certification is permitted under the Member's control.	A licensee may make application for certification of a derived model for another licensee or non-licensee based on the first licensee's basic model. The first licensee then assumes responsibility for any problems and enforcement. Through these steps non-licensee private label certification is permitted under the Licensee's control and listing of those brands.	5.1.7.1.6	Same wording except when AHAM terms were used in place of HVI terms
6.1.7	Application for private label certification is the responsibility of the Member responsible for the base model.	Application for private label certification is the responsibility of the licensee responsible for the basic model.	5.1.7.1.7	Same wording except when AHAM terms were used in place of HVI terms
6.1.8	Before HVI can approve any requests for derived private label product certification, the Member or non-Member desiring the derived private label certification shall be required to execute the HVI Certified Ratings Program Participation Agreement with HVI (see Section 4.1).	Before AHAM can approve any requests for derived private label product certification, the participant desiring the derived private label certification shall be required to execute the AHAM Licensee Agreement (see Appendix B).	5.1.7.1.8	Same wording except when AHAM terms were used in place of HVI terms
6.2.1	Certifying a derived model follows a procedure similar to certifying a base model, with variations described in this Section. A Member shall submit a Request for Product Certification to HVI as described in Section 5, Procedure for Certifying Base Models.	Certifying a derived model follows a procedure similar to certifying a basic model, with variations described in this Section. A licensee shall submit a Request for Product Certification to AHAM as described in Section 5.1.7.1.1.	5.1.7.2.1	Same wording except when AHAM terms were used in place of HVI terms
6.2.1.1	All certification information about the base model is required including, but not limited to, brand name, model number, test report date and model number. Copies of test reports already on file at HVI are not required to be re-submitted for each listing request.	All certification information about the basic model is required per RH-1 including, but not limited to, brand name, model number, test report date and model number. Copies of test reports already on file at the program lab are not required to be re-submitted for each listing request.	5.1.7.2.1.1	Same wording except when AHAM terms were used in place of HVI terms
6.2.1.2	The member shall describe in writing to HVI the difference between the derived model number and the base model number, all in confidence.	Using RH-2, the licensee shall describe in writing to the program lab the difference between the derived model number and the basic model number.	5.1.7.2.1.2	Same wording except when AHAM terms were used in place of HVI terms
6.2.2	HVI shall review the request and its attachments and evaluate the described differences between the base and derived models.	AHAM and the program lab shall review the request and its attachments and evaluate the described differences between the basic and derived models	5.1.7.2.2	Same wording except when AHAM terms were used in place of HVI terms
6.2.2.1	If HVI's review finds that the base model and the derived model have no inappropriate differences, the base model is in good standing, and all submittal materials have been received, they shall issue certification for the derived model.	If the review finds that the basic model and the derived model have no inappropriate differences, the basic model is in good standing, and all submittal materials have been received, the program lab shall issue certification for the derived model.	5.1.7.2.2.1	Same wording except when AHAM terms were used in place of HVI terms
6.2.2	If the evaluation of the described differences between the base model and the derived model causes HVI to be concerned that the difference may have a negative effect on performance, HVI shall request appropriate action from the Member before issuing HVI Certification. The requested action may include furnishing HVI with inspection models or a proof test of the derived model.	If the evaluation of the described differences between the basic model and the derived model causes AHAM or the program lab to be concerned that the difference may have a negative effect on performance, AHAM and the program lab shall request appropriate action from the Licensee before issuing AHAM Verifide Certification. The requested action may include furnishing the program lab with inspection models or a proof test of the derived model.	5.1.7.2.2.2	Same wording except when AHAM terms were used in place of HVI terms
6.2.3	HVI shall issue product certification for the derived model in the same way it issues it for base models, after everything is in order.	The program lab shall issue product certification per 5.1.6 for the derived model in the same way it issues it for basic models, after everything is in order.	5.1.7.2.3	Same wording except when AHAM terms were used in place of HVI terms
7.0 Presenting HVI Certified Ratings – Form and Format				
7.1	General Requirements	General Requirements	5.1.8.1	same wording
7.1.1	HVI-Certified Ratings shall be presented as prescribed below wherever the ratings are presented including on products, packaging and associated literature.	Certified Ratings shall be presented as prescribed below wherever the ratings are presented including on products, packaging and associated literature.	5.1.8.1.1	same wording
7.1.2	"Rounding to the nearest" follows conventional practice, i.e., 5 or more rounds up. Thus, when rounding to the nearest half sone, 2.74 rounds down to 2.5, and 2.75 rounds up to 3.0 sones.	Rounding is allowed for the CFM & Sound values provided on Form RH-7: Notice of Minimum or Maximum Certified Rating. "Rounding to the nearest" follows conventional practice, i.e., 5 or more rounds up. Thus, when rounding to the nearest half sone, 2.74 rounds down to 2.5, and 2.75 rounds up to 3.0 sones. See additional details in Section 5.1.8 – Presenting Certified Ratings – Form and Format	2.15	Same wording except when AHAM terms were used in place of HVI terms. AHAM adds additional information for clarity
7.1.3	This section describes general requirements. Particular requirements for each product category are found in the applicable Appendices. Appendix I contains a guide to the proper Appendix for each product category.	Not any		AHAM's program is only for kitchen range hoods and all of the requirements are listed in 5.1.8. AHAM does not need an Annex like HVI since AHAM's program is sole product focused.

7.1.4.	Consistency of HVI ratings between categories is a primary objective; therefore, differences between product categories must be logical and explainable. Nevertheless, functional differences exist between categories. If there is a conflict between this section's requirements and those in the category's Appendix, the Appendix shall take precedence.	Not any		AHAM's program is only for kitchen range hoods and all of the requirements are listed in 5.1.8. AHAM does not need to address consistency across categories.
7.1.5	See Appendix I for conversion of units of measure between IP and IS units.	See HVI 920 Appendix I for conversion of units of measure between IP and SI units.		
7.2	Airflow ratings	Airflow ratings	5.1.8.1.2	same wording except AHAM refers to HVI 920
7.2.1.	Shall be expressed in cfm, in whole numbers. See Appendix I for IS units.	Shall be expressed in cfm, in whole numbers. See HVI 920 Appendix I for SI units.	5.1.8.2	same wording
7.2.2.	Shall be rounded down to the nearest 10 cfm. (Varies for certain categories; see the Appendices.)	Shall be rounded down to the nearest 10 cfm.	5.1.8.2.1	same wording except AHAM refers to HVI 920
7.2.3.	In case more than one rating is to be certified by HVI, the basic rating shall be rounded down to the nearest 10 cfm as indicated, and additional rating points shall be derived from a normalized curve to the nearest whole number. (See "normalized airflow curve" in General Certification Requirements section, and Appendix I.)	In case more than one rating is to be certified by AHAM, the basic rating shall be rounded down to the nearest 10 cfm as indicated, and additional rating points shall be derived from a normalized curve to the nearest whole number. (See "normalized airflow curve" in section 2.10 and HVI 920 Appendix I.)	5.1.8.2.2	Same wording - AHAM removed reference to Appendices since this is sole product focus
7.2.3.1.	Exception: Duct termination fitting rating points shall be derived from the test airflow curve, rounded down to the nearest whole number.	Exception: Duct termination fitting rating points shall be derived from the test airflow curve, rounded down to the nearest whole number.	5.1.8.2.3	same wording except AHAM refers to HVI 920
7.2.4	Presenting ratings. For those products with more than one HVI-Certified airflow rating point, each rating point shall be identified by expressing its static pressure (Ps) in inches of water (" w.g.). Products with a single rating point may list the static pressure along with the airflow rating. (See Appendix I for SI units.)	Presenting ratings. For those products with more than one AHAM Certified airflow rating point, each rating point shall be identified by expressing its static pressure (Ps) in inches of water (" w.g.). Products with a single rating point may list the static pressure along with the airflow rating. (See HVI 920 Appendix I for SI units.)	5.1.8.2.3.1	same wording
7.3	Sound (loudness) ratings	Sound (loudness) ratings	5.1.8.2.4	same wording except AHAM refers to HVI 920
7.3.1	Shall be expressed in sones according to the rounding rules below.	Shall be expressed in sones according to the rounding rules below.	5.1.8.3	same wording
7.3.1.1.	Greater than 1.5 sones shall be rounded to the nearest 0.5 sones.	Greater than 1.5 sones shall be rounded to the nearest 0.5 sones.	5.1.8.3.1	same wording
7.3.1.2	. From 0.3 sones to and including 1.5 sones shall be rounded to the nearest 0.1 sones	From 0.3 sones to and including 1.5 sones shall be rounded to the nearest 0.1 sones.	5.1.8.3.1.1	same wording
7.3.1.3	Less than 0.3 sones will be rated <0.3 sones, because sound testing resolution is inadequate to differentiate more finely at lower levels.	Less than 0.3 sones will be rated <0.3 sones, because sound testing resolution is inadequate to differentiate more finely at lower levels.	5.1.8.3.1.2	same wording
1.8.4 7.4.	Energy ratings (for Energy-to-run-fan – for energy recovery products see Appendix III.)	Energy ratings (for Energy-to-run-fan – for energy recovery products	5.1.8.3.1.3	same wording
7.4.1.	Shall be expressed in watts using three significant digits (e.g., 21.3 watts, 213 watts). Watts ratings under 10 shall be expressed with two significant digits instead of three.	Shall be expressed in watts using three significant digits (e.g., 21.3 watts, 213 watts). Watts ratings under 10 shall be expressed with two significant digits instead of three.	5.1.8.4	same wording - Appendix III removed as it is not applicable
7.4.2.	Shall be rounded up to the third digit.	Shall be rounded up to the third digit.	5.1.8.4.1	same wording
7.4.3	Fan efficacy (cfm/watt) may also be expressed in Members' literature, provided it is based on a direct calculation of as-tested watts and whole cfm, using data from the airflow test report at the rating point. Fan efficacy (cfm/watt) is not an HVI-Certified parameter, but the HVI standard procedure for presenting fan efficacy is to round down to the nearest one decimal place (tenth). Members may optionally list fan efficacy at a lower value.	Fan efficacy (cfm/watt) may also be expressed in Licensee's literature, provided it is based on a direct calculation of as-tested watts and whole cfm, using data from the airflow test report at the rating point. Fan efficacy (cfm/watt) is not a certified parameter, but the AHAM standard procedure for presenting fan efficacy is to round down to the nearest one decimal place (tenth). Licensees may optionally list fan efficacy at a lower value.	5.1.8.4.2	same wording
7.7	Sound ratings	Sound ratings	5.1.8.4.3	same wording
7.7.1	For products with more than one HVI-Certified speed rating, speed settings shall be identified for each rating point using the prescribed nomenclature as follows: • HS – highest continuous speed • MS – medium speed • LS – lowest speed • WS – working speed (applicable to range hoods only; See HVI 920, Appendix II, Kitchen Range Hoods – Particular Requirements) • BS – an additional speed available to provide more airflow or static pressure when required by field conditions. The boost may be: ☐ Temporary (non-continuous speed boost, selectable by consumer as needed for various conditions) ☑ Permanent (continuous speed boost, selectable upon installation which cannot be changed by consumer and which, by default, becomes the new highest speed)	For products with more than one Certified speed rating, speed settings shall be identified for each rating point using the prescribed nomenclature as follows: • HS – highest continuous speed • MS – medium speed • LS – lowest speed • WS – working speed (applicable to range hoods only; See HVI 920, Appendix II, Kitchen Range Hoods – Particular Requirements) • BS – an additional speed available to provide more airflow or static pressure when required by field conditions. The boost may be: ☐ Temporary (non-continuous speed boost, selectable by consumer as needed for various conditions) ☑ Permanent (continuous speed boost, selectable upon installation which cannot be changed by consumer and which, by default, becomes the new highest speed)	5.1.8.5	same wording
7.7.2	For products with infinitely variable speed controls, or with more than three discrete speed settings, and with Certified ratings at more than one speed, speed settings shall be identified by the HVI-Certified airflow at the basic rating point for that speed setting (e.g., 80 cfm, 90 cfm, 100 cfm), unless the Member elects to certify three or fewer speeds using the nomenclature in Section 7.7.1. In which case the medium speed is understood to be in the middle between the highest and lowest speed settings. In cases where a model has an even number of discrete speed settings, medium speed is understood to be the lower of the two middle speed settings.	For products with infinitely variable speed controls, or with more than three discrete speed settings, and with Certified ratings at more than one speed, speed settings shall be identified by the Certified airflow at the basic rating point for that speed setting (e.g., 80 cfm, 90 cfm, 100 cfm), unless the Licensee elects to certify three or fewer speeds using the nomenclature in Section 5.1.8.5.1 in which case the medium speed is understood to be in the middle between the highest and lowest speed settings. In cases where a model has an even number of discrete speed settings, medium speed is understood to be the lower of the two middle speed settings.	5.1.8.5.1	same wording except AHAM refers to HVI 920
7.7.2	For products with infinitely variable speed controls, or with more than three discrete speed settings, and with HVI-Certified ratings at more than one speed, speed settings shall be identified by the HVI-Certified airflow at the basic rating point for that speed setting (e.g., 80 cfm, 90 cfm, 100 cfm), unless the Member elects to certify three or fewer speeds using the nomenclature in Section 7.7.1. In which case the medium speed is understood to be in the middle between the highest and lowest speed settings. In cases where a model has an even number of discrete speed settings, medium speed is understood to be the lower of the two middle speed settings.	For products with infinitely variable speed controls, or with more than three discrete speed settings, and with Certified ratings at more than one speed, speed settings shall be identified by the Certified airflow at the basic rating point for that speed setting (e.g., 80 cfm, 90 cfm, 100 cfm), unless the Licensee elects to certify three or fewer speeds using the nomenclature in Section 5.1.8.5.1 in which case the medium speed is understood to be in the middle between the highest and lowest speed settings. In cases where a model has an even number of discrete speed settings, medium speed is understood to be the lower of the two middle speed settings.	5.1.8.5.2	same wording
7.8	De-rating. Any Member company may apply for a lesser performance rating than is shown on the test submitted with the application for certification. The Member is required to have confidence the product will meet the ratings.	De-rating. Any Licensee company may apply for a lesser performance rating than is shown on the test submitted with the application for certification. The Licensee is required to have confidence the product will meet the ratings	5.1.8.6	same wording - AHAM uses term = licensee term whereas HVI uses the term = member

7.8.1	HVI airflow certification ratings may be less than the maximum allowed based on the test report. Airflow ratings shall still be in 10's of cfm as noted in Section 7.2.2. (Varies for certain categories; see Appendices.)	AHAM airflow certification ratings may be less than the maximum allowed based on the test report. Airflow ratings shall still be in 10's of cfm as noted in Section 5.1.8.2.2.	5.1.8.6.1.	Same wording except when AHAM terms were used in place of HVI terms
7.8.2.	HVI sound certification ratings may be more than the minimum allowed based on the test report.	AHAM sound certification ratings may be more than the minimum allowed based on the test report.	5.1.8.6.2	same wording
7.8.3.	HVI Energy-to-run-fan(s) certification ratings may be more than the minimum allowed based on the test report.	AHAM Energy-to-run-fan(s) certification ratings may be more than the minimum allowed based on the test report.	5.1.8.6.3	same wording
7.8.4.	HVI Energy Recovery certification ratings may be less than the maximum allowed based on the test report.	not any		AHAM's program is only for kitchen range hoods and does not require this section
7.8.5.	HVI Net Free Area certification ratings may be less than shown on the test report.	not any		AHAM's program is only for kitchen range hoods and does not require this section
7.8.6.	HVI-Certified performance ratings of derived models may be de-rated from the HVI-Certified performance ratings of the base model, or a base model may be de-rated while a derived model is not. Regardless, each Member of a product family must pass HVI Verification and Challenge, based on the HVI-Certified rating for that model number.	AHAM Certified performance ratings of derived models may be de-rated from the Certified performance ratings of the basic model, or a basic model may be de-rated while a derived model is not. Regardless, each Licensee of a product family must pass AHAM Verification and Challenge, based on the Certified rating for that model number.	5.1.8.6.4	same wording
7.8.6.1	. Base and derived models must be equivalent in design and construction as described in Section 6.	Basic and derived models must be equivalent in design and construction as described in Section 5.1.7.	5.1.8.6.4.1	Same wording except when AHAM terms were used in place of HVI terms
7.8.7.	De-rating shall not be used to avoid testing derived models that are not the same as described in Section 6.	De-rating shall not be used to avoid testing derived models that are not the same as described in Section 5.1.7.	5.1.8.6.5.	Same wording except when AHAM terms were used in place of HVI terms
7.8.8	HVI Certification is based on "single number" ratings for most products. A full fan performance curve based on HVI Certification testing may be presented in a Member's literature and/or website. The curve is not HVI-Certified. (See also Section 4.23.)	AHAM Certification is based on "single number" ratings for most products. A full fan performance curve based on Certification testing may be presented in a Licensee's literature and/or website. The curve is not AHAM Certified. (See also Section 2.10)	5.1.8.6.6	Same wording except when AHAM terms were used in place of HVI terms
7.8.8.1.	HVI has no routine procedure for enforcing the accuracy of these curves. Nonetheless, HVI may become involved as per Sections 4.27. and 4.28. if it receives an inquiry about possible inconsistency. HVI shall not permit misrepresentation of data related to HVI Certification and shall protect its certified ratings program.	AHAM nor HVI has no routine procedure for enforcing the accuracy of these curves. Nonetheless, AHAM may become involved as per Appendix B if it receives an inquiry about possible inconsistency. AHAM shall not permit misrepresentation of data related to AHAM Certification and shall protect its certified ratings program.	5.1.8.6.6.1	Same wording except when AHAM terms were used in place of HVI terms

8.0 Record Keeping and Maintenance of HVI Certification Records HVI Certified Ratings – Form and Format

The clauses by clause analysis was not shown as the processes use the Same wording except when AHAM terms were used in place of HVI terms

9.0 HVI Verification – Requirements and Procedures

The clauses by clause analysis was not shown as the processes use the Same wording except when AHAM terms were used in place of HVI terms. A couple further explanations that are shown in the maps

1. AHAM tests a minimum of one unit per year but up to 10 % of the basic models. HVI tests a minimum of one model every other year.
2. AHAM has processes to allow getting units from the participants warehouse. However, the units are selected randomly and wrapped with tap to assure there was no tampering. AHAM also allows marketplace purchase of range hoods for verification.

9.0 HVI Requirements of Challenge

The clauses by clause analysis was not shown as the processes use the Same wording in numerous places except when AHAM terms were used in place of HVI terms. Both will yield the same results. The main difference that is shown in the maps

AHAM does not give the challengee as much of an opportunity to respond directly to the challenge. Both HVI and AHAM allow voluntary changes to the ratings but AHAM has historically run our programs where the challenge moves forward directly. Once AHAM gets a challenge, it starts the process when the challenger agrees to pay the costs. HVI allows time for the challengee to respond before the testing may start.