

From: "Shows, Michael" <Michael.Shows@ul.com>
To: Jeff Miller <Jmiller@energy.state.ca.us>
CC: Gary Flamm <gflamm@energy.state.ca.us>, Maziar Shirakh <Mshirakh@energy....>
Date: 1/14/2012 7:12 PM
Subject: Re: Testing Lab for Air-handling Unit Leakage rates using ASHRAE Standard 193-2010

Hi Jeff,

I like your write up for accreditation. I do not believe it is too restrictive as it is already in place with ENERGY STAR. It does ensure a benchmark level of qualification ensuring a level of assurance to parties reviewing the program.

Sent from my iPhone

On Jan 10, 2012, at 1:50 PM, "Jeff Miller" <Jmiller@energy.state.ca.us> wrote:

> Mike,
> I searched the IAF website and found that IAS is listed as a signatory to the IAF MLA.
>
> http://www.iaf.nu//articles/IAF_MLA/14
>
> http://www.iaf.nu/articles/IAF_MEM_USA__all/112
>
> Question: Is there any reason to be concerned that a specification for the accrediting body to be a signatory to the IAF MLA might be too restrictive?
>
> The following language is what I have placed into our draft 2013 regulations. We will appreciate any further corrections or suggestions that you have.
>
> thanks for your help with this.
> jeff
>
>
>
> ****extract from draft Appendix JA9 language start*****
> Testing Laboratory Requirements
> The Air-Handling Unit shall be tested in a laboratory that has demonstrated compliance with ISO Standard 17025, General Criteria for the Competence of Testing and Calibration Laboratories, and is accredited for the ASHRAE Standard 193 test methods. The accrediting body shall be a signatory to the International Accreditation Forum Multilateral Recognition Agreement (IAF MLA). <http://www.iaf.nu/>
>
> ***extract from draft Appendix JA9 language end*****
>
>
>>>>
> From: Jeff Miller
> To: Michael Shows
> CC: Gary Flamm; Maziar Shirakh; Shari L. Hunter
> Date: 1/4/2012 3:24 PM
> Subject: RE: Testing Lab for Air-handling Unit Leakage rates using ASHRAE Standard 193-2010
> Mike,
> I have a followup question:
>
> You suggested a specification: "the accrediting body be a signatory to the International Accreditation Forum Multilateral Recognition Agreement (IAF MLA)."
>
> I was just looking at the certification document for the Plano Lab that you sent to us that does not

reference IAF MLA (attached again to this email for convenience) <<TL-339.pdf>> Is IAS a signatory to the IAF MLA ?

> jeff

>

>

>

>>>>

> From: "Shows, Michael" <Michael.Shows@ul.com>

> To: Jeff Miller <Jmiller@energy.state.ca.us>

> CC: Gary Flamm <gflamm@energy.state.ca.us>, Maziar Shirakh <Mshirakh@energy.state.ca.us>, "Hunter, Shari L." <Shari.L.Hunter@ul.com>

> Date: 1/4/2012 3:15 PM

> Subject: RE: Testing Lab for Air-handling Unit Leakage rates using ASHRAE Standard 193-2010

> Hi Jeff,

> Great, let us know how we can assist your efforts. FYI, the UL Plano lab will seek to add ASHRAE 193 during the next accreditation cycle.

> Thanks,

>

> Mike

>

> From: Jeff Miller [mailto:Jmiller@energy.state.ca.us]

> Sent: Wednesday, January 04, 2012 4:59 PM

> To: Shows, Michael

> Cc: Gary Flamm; Maziar Shirakh; Hunter, Shari L.

> Subject: RE: Testing Lab for Air-handling Unit Leakage rates using ASHRAE Standard 193-2010

>

> Thank you Mike.

>

> To begin with, the Energy Commission will host a database for these air handlers. But I was wondering whether AHRI would be better suited for that duty. I will discuss with my managers.

> jeff

>

>

>>>>

> From:

>

> "Shows, Michael" <Michael.Shows@ul.com>

>

> To:

>

> Jeff Miller <Jmiller@energy.state.ca.us>

>

> CC:

>

> Gary Flamm <gflamm@energy.state.ca.us>, Maziar Shirakh <Mshirakh@energy.state.ca.us>, "Hunter, Shari L." <Shari.L.Hunter@ul.com>

>

> Date:

>

> 1/4/2012 1:42 PM

>

> Subject:

>

> RE: Testing Lab for Air-handling Unit Leakage rates using ASHRAE Standard 193-2010

>

> Hi Jeff,

> Please see below.
> Thanks,
>
> Mike
>
> From: Jeff Miller [mailto:Jmiller@energy.state.ca.us]
> Sent: Tuesday, January 03, 2012 5:22 PM
> To: Shows, Michael
> Cc: Gary Flamm; Maziar Shirakh; Hunter, Shari L.
> Subject: Testing Lab for Air-handling Unit Leakage rates using ASHRAE Standard 193-2010
>
> Mike,
> Gary Flamm has referred me to you for assistance. I need guidance in crafting regulatory language that would specify a laboratory to test air-handling units to determine air leakage rates according to the new ASHRAE Standard 193-2010 Method of Test for Determining the Air Tightness of HVAC Equipment.
>
> I viewed the Scope of Accreditation for the Underwriters Laboratories, Inc. - Plano, TX shown on the Certificate of Accreditation you sent to us. I see that there are other ASHRAE Standards listed in that scope. I assume that it will be necessary for a laboratory to demonstrate the capability to perform this new ASHRAE 193 method of test in order to include ASHRAE 193 in the Scope of Accreditation.
>
> Gary Flamm has suggested that I send you strawman language to review (follows in the string), and I would appreciate your suggestions for improvements or corrections to this language:
>
> ****strawman language start*****
> The Air-Handling Unit shall be tested in a laboratory that has demonstrated compliance with ANS/ISO/IEC Standard 17025:2005, General criteria for the competence of testing and calibration laboratories, and has been accredited for the ASHRAE Standard 193-2010 test methods. Looks Great!
> *****strawman language end*****
>
> Question: can you confirm that ISO Standard 17025 is the correct citation for specification for Laboratory Qualifications for testing of HVAC air handler leakage rates using ASHRAE Standard 193-2-10? YES, Correct with one typo ASHRAE Standard 193-2010!
>
> Question: Are there additional specifications for Laboratory Qualifications that should be included in this regulation language? e.g. shall we specify the Accreditation entity in some way? I would consider adding that the accrediting body be a signatory to the International Accreditation Forum Multilateral Recognition Agreement (IAF MLA).
>
> Question: Do you know anything about the industry procedures that initiate the publishing of performance ratings based on the results of the testing performed in an accredited lab? I suppose that AHRI might be an organization that could become a repository for these air handler leakage test results (ratings). Would it be appropriate for the CA Energy Commission to communicate with the laboratory in Plano, and/or AHRI in order to initiate start of any regulatory infrastructure work that will be needed to support the publishing of ratings of air-handling units for leakage? Would you want to store in AHRI or internally in CEC database? Plano would be pleased to gain accreditation and become a recognized laboratory.
>
> Thanks for any assistance you can provide.
> jeff
>
>
> Jeff R. Miller, PE
> Mechanical Engineer
> California Energy Commission
> High Performance Buildings & Standards Development Office

> voice: 916-651-6182
> Jmiller@energy.state.ca.us<mailto:Jmiller@energy.state.ca.us>
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>>>>
> From:
>
> "Shows, Michael" <Michael.Shows@ul.com>
>
> To:
>
> Gary Flamm <gflamm@energy.state.ca.us>, "Hunter, Shari L." <Shari.L.Hunter@ul.com>
>
> CC:
>
> Jeff Miller <Jmiller@energy.state.ca.us>
>
> Date:
>
> 1/3/2012 12:23 PM
>
> Subject:
>
> RE: FW: Testing Lab Question
>
> Hi Gary,
> The UL laboratory in Plano is accredited to ISO 17025 for many standards and is also an ENERGY STAR recognized third party laboratory. Attached is the scope.
> Thanks,
>
> Mike
>
> From: Gary Flamm [mailto:gflamm@energy.state.ca.us]
> Sent: Tuesday, January 03, 2012 1:19 PM
> To: Hunter, Shari L.
> Cc: Jeff Miller; Shows, Michael
> Subject: Re: FW: Testing Lab Question
>
> Thanks. What we are looking for are specification for testing labs to establish they are independent, or under some third party oversight, not the test. Jeff Miller, here at the Energy Commission, has already spent significant effort on the test.
>
> Thanks,
> Gary
>
>>>> "Hunter, Shari L." <Shari.L.Hunter@ul.com<mailto:Shari.L.Hunter@ul.com>> 1/3/2012 11:06 AM
>>>>
> Hi Gary,
> Mike Shows found an ISO document referencing an air leakage test which he cited below. I hope this is the test set up for which you are looking.
> Regards,
>
> Shari L Hunter, P.E.
> Business Development Manager, Lighting and Signs

> Underwriters Laboratories Inc., RTP Office
> (919) 549-1610 – office
> (919) 564-9136 - mobile
>
>
>
> From: Shows, Michael
> Sent: Tuesday, January 03, 2012 1:33 PM
> To: Hunter, Shari L.
> Subject: RE: Testing Lab Question
>
> Hi Shari,
> I looked through some of the ISO documents and ISO 5151 does provide a requirement air leakage
> and heat leakage. Below is a diagram of the device used to determine air leakage and found on page 37
> of the standard.
> [cid:GUXMPSHAWHNF.IMAGE_1.png]
>
> Thanks,
>
> Mike
>
> From: Hunter, Shari L.
> Sent: Tuesday, January 03, 2012 10:00 AM
> To: Shows, Michael
> Subject: FW: Testing Lab Question
>
> Hi Mike – Happy 2012!
> Gary was following up to see if we came up with someone who could help with this wording, any luck?
> Shari
> From: Gary Flamm [mailto:gflamm@energy.state.ca.us]
> Sent: Tuesday, January 03, 2012 10:51 AM
> To: Hunter, Shari L.
> Cc: Jeff Miller
> Subject: RE: Testing Lab Question
>
> Hello Shari,
>
> Hope you had wonderful Christmas and New Year's. Have you come up with a name of someone who
> can help with this?
>
> Thanks,
>
>
> Gary Flamm
> Supervisor, Building Standards Development Unit
> California Energy Commission
> 1516 Ninth Street, Mail Stop 37
> Sacramento, CA 95814
> 916-654-2817 Phone
> gflamm@energy.state.ca.us<mailto:gflamm@energy.state.ca.us>
>
>
>>>> "Hunter, Shari L." <Shari.L.Hunter@ul.com<mailto:Shari.L.Hunter@ul.com>> 12/21/2011 7:41 AM
>>>
> Hi Gary,
>

> I'm not sure I helped you with that language, I thought I assisted with the Sign language in Title 24. In any case I've forwarded your question to our appliance/AC experts. I expect to have the name of someone who can help very soon.

>

> Shari L Hunter, P.E.

> Business Development Manager, Lighting and Signs

> Underwriters Laboratories Inc., RTP Office

> (919) 549-1610 – office

> (919) 564-9136 - mobile

>

>

> From: Gary Flamm [mailto:gflamm@energy.state.ca.us]

> Sent: Tuesday, December 20, 2011 1:55 PM

> To: Hunter, Shari L.

> Cc: Jeff Miller

> Subject: Testing Lab Question

>

> Hello Shari,

>

> Can you please help me again?

>

> Some time ago, you had helped me craft the following testing lab requirements for Title 24:

>

> "The integral LED luminaire or LED light engine under test shall be tested in a Underwriters Laboratory (UL) 1598 testing apparatus in a testing laboratory participating in the ISO/IEC 17025, by the National Voluntary Laboratory Accreditation Program (NVLAP) or other laboratory accreditation body operating in accordance with ISO/IEC 17011 and produced under an ongoing inspection program carried out by a Type A inspection body in accordance with ISO/IEC 17020, accredited to ISO/IEC 17020 by an accreditation body operating in accordance with ISO/IEC 17011."

>

> I have a colleague who would like to develop testing lab requirements for low-leakage air handlers, to use with air conditioning. Do you know if ISO/IEC has some kind of relevant testing construct for such mechanical equipment? If not, do you know, or will you please refer me to someone else who has helpful information?

>

> Thanks,

>

>

>

>

>

>

> Gary Flamm

> Supervisor, Building Standards Development Unit

> California Energy Commission

> 1516 Ninth Street, Mail Stop 37

> Sacramento, CA 95814

> 916-654-2817 Phone

> gflamm@energy.state.ca.us<mailto:gflamm@energy.state.ca.us>

>

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> <ATT00001.png>

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