QUALITY INFRASTRUCTURE FOR RENEWABLE ENERGY SOURCES & ENERGY EFFICIENCY IN LATIN AMERICA AND THE CARIBBEAN

Concept Proposal   Version 1, 2017-02-10

Workshop "Interpretation of the ISO/IEC 17021-1:2015[1] and IAF MD applicable focused on the implementation of an accreditation programme for Energy Management System, ISO 50001"

Buenos Aires, Argentina

9th – 11th May 2017

Background

OAS, COPANT, SIM, IAAC and PTB have agreed to realize a regional project "Quality Infrastructure for Energy Efficiency and Renewable Energy Sources in Latin America and the Caribbean". The objective of the project is to strengthen the capabilities of the regional organizations COPANT, IAAC and SIM and to improve technical competences in the region for the integration of renewable energy sources and to facilitate the implementation of energy efficiency programs.

One of the elements of the project defined by the five partners is to strengthen the conformity assessment systems related to the energy efficiency labelling programmes for household appliances (air conditioning equipment, refrigerators, and lighting), being ISO 50001, one of the relevant energy efficiency management system (EnMS), which supports organizations in all sectors to use energy more efficiently, through the energy saving.

In the framework of the Quality Infrastructure, the Certification Bodies for Systems (CBS), recognized by the National Accreditation Bodies (NABs), are the Conformity Assessment Bodies (CABs) which certify the organizations in the implementation of the EnMS.

Currently we have the following situation for the ABs in Latin American and the Caribbean (LAC) countries:

NABs which has at least the QMS accreditation programme internationally recognized and has established the accreditation programmes for certifying EnMS according to ISO 50001: Brazil, Colombia, Chile and Mexico

NABs which has at least the QMS accreditation programme internationally recognized and has in process of implementation the accreditation programmes for certifying EnMS according to ISO 50001: Argentina, Costa Rica and Peru.

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[1] Conformity assessment -- Requirements for bodies providing audit and certification of management systems -- Part 1: Requirements for bodies providing audit and certification of management systems -- Part 1: Requirements

NABs which could have some interest in the process of implementation the accreditation programmes for certifying EnMS according to ISO 50001: El Salvador and Honduras by 2018.

The basis for the development of the accreditation programme of the EnMs according to ISO 50001 are:

a) ISO/IEC 17021-1:2015 Conformity assessment -- Requirements for bodies providing audit and certification of management systems -- Part 1: Requirements for bodies providing audit and certification of management systems -- Part 1: Requirements

b) IAF MD Documents[2]

c) ISO 50001 – Management System for Energy itself[3]

The normative documents of a) and b) have been modified in the last two years, so NABs are faced with challenges to implement the resulting changes. So, an experience exchange on a regional level is aimed at harmonizing criteria established in the mentioned documents.

Thus, it is proposed the realization of a **first workshop** which could support IAAC members in the development of the accreditation programme for accrediting certification bodies for EnMS in their countries in a harmonized

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- [2] IAF MD 1:2007 Certification of Multiple Sites Based on Sampling

The IAF MD documents which will be addressed in the workshop, jointly with the ISO/IEC 17021-1:2015 will be:

- IAF MD 1:2007 Certification of Multiple Sites Based on Sampling
- IAF MD 2:2007 Transfer of Accredited Certification of Management Systems
- IAF MD 3:2008 Advanced Surveillance and Recertification Procedures (ASRP)
- IAF MD 4:2008 Use of Computer Assisted Auditing Techniques ("CAAT") for Accredited Certification of Management Systems
- IAF MD 5:2015 Determination of Audit Time of Quality and Environmental Management Systems
- IAF MD 10:2013 IAF Mandatory Document for Assessment of Certification Body Management of Competence in Accordance with ISO/IEC 17021: 2011
- IAF MD 11:2013 IAF Mandatory Document for Application of ISO/IEC 17021 for Audits of Integrated Management Systems (IMS)
- IAF MD 19:2016 IAF Mandatory Document For The Audit and Certification of a Management System operated by a Multi-Site Organization (where application of site sampling is not appropriate)

[3] It could be relevant also to address the ISO 50002:2014, Energy audits –Requirements with guidance for use and the ISO 50003:2014 Energy management systems -- Requirements for bodies providing audit and certification of energy management systems**. This subject would be addressed in a secondi Workshop**

way considering the last updated versions of the corresponding supportive documents. In the first workshop the focus of the training will be in the ISO 17021-1 and the IAF MD documents applicable. In a **second workshop**, the training will be focused in the ISO 50001 standard[3].

In this document it is presented the **concept details of the first workshop.**

Objective(s)

- To Strengthen the capacities for accrediting Certification Bodies for Systems in Energy Management System according to ISO 50001 in LAC countries, through a better understanding of the interpretation of the requirements established in the ISO/IEC 17021:2015 and the IAF MD Documents[2]

Target Group

- Technical Representatives of IAAC Accreditation Bodies who manage the Management Systems Accreditation Programmes or are intended to manage this accreditation programme.

Expected Impact

- NABs better prepared for the implementation of the accreditation programme for CBS based on the ISO/IEC 17021:2015 and the IAF MD Documents applicable [2]

Expected Results

- Harmonized interpretation about the requirements of the standard ISO/IEC 17021-1:2015.

- Harmonized interpretation about the requirements of the IAF MD Documents[2] applicable.

Contribution to project goal (indicators).

In at least 3 additional countries the technical preconditions for the implementation of energy efficiency programmes are improved (e.g. **accreditation procedures for certifiers** and testing laboratories; ensuring the comparability of test results; staff training; market surveillance and control methods).

Relation to strategy/work plan of regional organization involved

The workshop's expected results and expected impact contribute mainly to the following goals outlined in the 2016-2020 IAAC Strategic Plan.

Goal 1.1 Improve the MLA peer evaluation process. A direct way to improve the MLA process is by harmonizing criteria in the operation of the accreditation body members, based on the ISO/IEC 17021-1:2015 standard

and the relevant mandatory IAF documents, and by agreeing to the criteria applicable to peer evaluations and in the MLA Group decisions.[4]

Goal 3.2 Transmit and disseminate information and knowledge in the region to improve current accreditation activities and about demands of new scopes. The workshop will foster information and knowledge exchange, collaboration, cooperation and mutual assistance among the participating Accreditation Body members of IAAC. In addition, this activity was requested by the AB representatives who attended the previous Workshops about ISO/IEC 17067 held in Costa Rica in 2015, about Labelling programs held in Ecuador in 2015, and the ISO/IEC 17065 held in Argentina in 2015 [4].

Methodology	- Input presentations by the participants and experts invited. Discussion. Open Questions. - Discussion about the ISO/IEC 17021-1:2015, focusing on key requirements and promoting a harmonized position - Discussion about the IAF MD Documents[2], focused on key requirements and promoting a harmonized position. - Moderated discussion with the plenary group and in working groups, as needed.
Contents	1. Introduction, including update on project situation. 2. Presentation and discussion about the ISO/IEC 17021-1:2015 standard, the IAF MD Documents**2** applicable requirements as supportive tools for the development of the Management Systems Accreditation Programme. 3. Working Groups (WG) about specific topics as needed. 4. Presentation about the outcomes of the analysis of the topic addressed by each WG in case they are formed. 5. Next activities and definition of follow-up process.

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[4] These activities could be complemented to other ones which could be developed in the framework of this project.

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IN LATIN AMERICA AND THE CARIBBEAN

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Invited Expert	International Experts for exposing about the application of the ISO/IEC 17021-1:2015 and IAF MD Documents focused on the development of Energy Management Programme
Implementing Partners	IAAC, National Accreditation Bodies from the region, PTB International Technical Cooperation

Responsibilities and inputs of the implementing partners

Implementing partners	Responsibilities and inputs, for example:
IAAC, including related Committees	• Conceptual input & survey • Active participation • Coordinate selection of participants and its registration • Send the registration records to the responsible of Logistics in PTB • Coordinate selection of host NAB and workshop date • Follow-up of planned activities
National Accreditation Bodies (NABs)	• Preparation of information as required (written or presented) as sending the survey completed. • Participation in the workshop • Implementation of the action plan
Host NAB	• Local organization of the workshop • Logistic support at workshop destination to participants (travel coordination with the responsible of Logistics in PTB), • Provide venue
PTB International Technical Cooperation	• Conceptual input & survey • Preparation the List of Participants • Partial Financial support for the event in accordance with the Host NAB. • Partial Financial support for the participants (travel costs for participants or accommodation5) • Financial Support for experts and moderation of the event • Coordinate the demands for developing the event with the Host NAB • Active participation • Moderation • Support for follow-up of planned activities

Imilce Zuta, PTB

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5 If the participant belongs to a NAB which has not signed the MRA could receive a total Financial Support.