



BUILDINGS AND APPLIANCES TASK FORCE

5th Meeting

23-24 June, 2008

Shilla Hotel, Seoul

Project-1 Harmonization of Testing Procedures

HVAC/R WG

Household Refrigerator Sub-PJ

Kiyoshi SAITO

The Japan Electrical Manufacturers' Association

(JEMA)

Project Operation

- APP BATF PR - 012006 - 1.3.2

Harmonization of Test Procedures

- Household Refrigerator Sub-Project

PJ Leader *Mr. Lloyd HARRINGTON (AS)*

Sub-Leader *Mr. Hiroshi SASAKI (JP/JEMA)*

PJ Manager *Masazumi Sasako and Kiyoshi Saito (JP/JEMA)*

Organization *The Japan Electrical Manufacturers' Association (JEMA)*

- PJ Start Date: January, 2008
- Proposed PJ End Date: end of 2009
- First Meeting Date: 14th April, 2008

Project Objective

- Developing a new harmonization methodology and/or categories regarding rationale of classification for different cooling method for household refrigerator, as well as testing and compliance of product performance including actual using condition of energy consumption.
- By the harmonization of household refrigerator test procedures of APP member countries, the following will be achieved;
 - Make the common indicator for each country
 - Make possible one stop testing
 - Promote the energy saved household refrigerators in the market by the appropriate evaluation
 - Reduce the CO₂ emission from the household refrigerators

Project Goal

- Circulate “Best practices with methodology with harmonization of test procedures” to standards-setting agency in APP member countries or by an international agency such as ISO or IEC.
 - To propose ISO15502 modification
 - note: ISO15502 has withdrawn and has been replaced by IEC 62552, Edition 1.0 (2007-12), Household refrigerating appliances – Characteristics and test methods.*
- Test procedures and rules may be published as formal standards by an economy’s standards-setting agency in APP member countries or by an international agency such as ISO or IEC.

First Meeting

- 14 April 2008 in Tokyo, JEMA
- Participants

Australia, China, India, Korea, New Zealand, U.S. and Japan
Number of attendees : 24

- Review and discussion of recent changes in APP countries regarding refrigerators
 - Standard and Test method
 - Energy labeling
 - Other Policy and Measures

First Meeting

- Assumption of energy saving at home in APP regions
 - Japan explained “The Method for Identify the energy saving potential by household refrigerator”.
- Review and Discussion of refrigerator test method
 - Developing realistic energy tests review of data on approaches taken by various test methods to compensate for actual use.
 - Presentation and Discussion on key elements that affect energy consumption ; ambient, defrost, door opening, heat loads, internal volume . . . etc.
 - Generally agreed that any new volume measure should be based on a volume that is based on the WYSIWIG approach (what you see is what you get).

Confirmation concerning input to IEC

- It is important that we ensure that APP members are active in IEC, now and in the future.
- It was agreed that any new test method for refrigerators has to be capable of reflecting of actual use in different parts of the world – this is the key point.
- It was suggested that a building block approach should be adopted in the IEC test method wherever possible
- It is important to ensure cooperation between IEC and APP on refrigerators.
- To ensure that the APP meeting is close to IEC meeting.

Next Steps

- Next Meeting
 - The end of September at Sydney (29-30th is examined.)
- Preparation data and the following next agenda item ;
 - Update of table of comparison for 7 APP countries
 - Energy data – assumptions of actual use and end use data
 - Power consumption measurement
 - substitution of door opening (equivalent loads)
 - limitation on freezers (max temperature – required?)
 - measurement terms – definition of stability
 - temperature measurement in crispers • • • etc
 - Internal volumes – measurement method

Input Needed from Project Team

- Need to assign the expert member: addition and confirmation
 - Canada
 - China and India (Need to make sure that both aspects are covered – APP and IEC meeting.)
- Need to follow up other Climate Policy: Energy efficiency policy recommendations to G8 Hokkaido Summit from IEA

Test standards and measurement protocol

Recommendation

a) Governments should:

- i) Review energy measurement standards currently used, to determine whether they are consistent with national policy requirements; and*
- ii) support the development and use of international measurement standards, where appropriate, in order to assist performance comparison and benchmarking for traded products while also reducing compliance costs.*

Thank you!

