

PROJECT STATUS REPORT FORM

Project Number: BATF 06-01 and 06-02	Task Force: Buildings and Appliances
Title of Project: Harmonization of Test Procedures - Electric Motors and Motor Systems	
Lead Partner Country: Australia/China	
Participating Partner Countries and Organizations: Australia, China, Korea (Japan, India, US possible participants)	
Project Manager Information Name: Melanie Slade Organization: Department of the Environment, Water, Heritage and the Arts Address: DEWHA GPO Box 787 Canberra ACT 2601 Australia Phone: +61 2 6274 1586 Fax: +61 2 6275 9190 Email: melanie.slade@environment.gov.au	
Project Start Date: July 2007	Date of Project Status Update: December 2010
Milestones: Three project workshops have been held so far - 10 June 2007 (Beijing), 10 December 2007 (Beijing) and 6 February 2009 (Sydney) to further progress this project. A motor testing round robin between Germany, Australia, China and Korea is in progress. Unexpected delays mean that completion is now likely to be mid 2010. 27 motors have been purchased in China and have been tested in Shanghai. Testing is completed and the test data is being finalised.	
Actions Since Last Update: <ul style="list-style-type: none"> • A testing round robin of electric motors between Germany, Australia, China and Korea is underway and expected to be completed in 2010. The aim of this round robin is to provide input to the IEC (International Electrotechnical Commission – an international standards body) and APP partners on the new IEC test method standard, IEC 60034-2-1. The motors have already been tested in Australia and China and the results sent to the IEC. The motors will be sent from China to Korea in the near future. There have been some unexpected delays with export clearances from China. • 27 industrial motors have been purchased in China and have been tested at the Shanghai Electrical Apparatus Research Institute (SEARI) test laboratory. These motors were tested to three test methods listed in the new IEC test method standard to enable APP partners to assess the difference between the three test methods and help inform policy decisions. The data from these tests is currently being finalised. • At the APP workshop held in Sydney in February 2009, participants shared policy and program initiatives for improving energy efficiency of motor systems within their countries. It was agreed that 	

participants would set up an online forum to share information about recent international developments in this area and work towards developing guides that could be taken to the international standards bodies to further develop and publish. This proposal has been delayed but may proceed later in 2010.

- Workshop participants also asked Australia project members to provide a written update would be provided to the EEMODS 09 conference (Energy Efficiency in Motor Driven Systems) held in September 2009 in Nantes, France. This update was to include achievements to date and the background to the APP BATF.
<http://www1.cetim.fr/eemods09/pages/programme/063-Hatch-final.pdf>
- It is expected that these two sub projects will need to work closely with other international projects, such as the IEC round robin and the new International Energy Agency (IEA) 4E Electric Motor Systems Annex (EMSA). Australia hopes to discuss possibilities for formal collaboration with IEA 4E EMSA delegates in March 2010.

In general, APP partners are working towards:

- Creating a “Government” forum to facilitate a dialogue between government officials responsible for or interested in sharing experience and data of using a particular testing methodology and performance requirements.
- Creating a “Technical Exchange” forum where experts can oversight comparative testing (a so called “round robin” testing of motors in each of the participating APP countries comparing these two commonly used test methodologies). This will lead to information concerning the accuracy and repeatability of the testing procedures and will inform policy makers of the benefits of using each of the testing methods.
- Facilitating APP member countries engaging with:
 - International Electrotechnical Commission Working Groups to ensure outcomes of the standard development process are suitable for use in their countries; and
 - Any other regional groups working in this field (for example, the European Commission Eco-design of Energy using Products Directive (EuP) process for motors).
- Creating a forum for dialogue between governments to share experience of defining the benefits and barriers to legislating for improved efficiency for motor driven systems.
- Creating a forum for technical exchange which would start with comparing all the test data that is currently available and creating a prioritised list of products that could practically be the subject of energy efficiency performance requirements; and for priority aspects or entire motor systems, each of the participating APP countries could share experience on working elements and liaise with other regional groups undertaking similar tasks (for example, the European Commission Eco-design of Energy using Products Directive (EuP) process).

Date Completed: December 2010

Deliverables Since Last Update: Australia's results from the motor testing round robin have been sent to the IEC. The motors have been tested in China and will be sent to Korea in the near future.

27 motors have been purchased in China and have been delivered to SEARI. Testing is now complete and the results will be finalised shortly.

Date Completed: December 2010.