



## ALUMINIUM TASKFORCE

ASIA PACIFIC PARTNERSHIP OF CLEAN DEVELOPMENT & CLIMATE  
21 March 2007, Beijing, China

### **AGREED OUTCOMES & PROJECT PROGRESS**

#### **Agenda Item 1.0 – Opening Remarks**

Mr John Hartwell welcomed participants to the meeting and thanked Mr Pan Wenju for his hospitality in hosting this meeting and preceding workshop. Meeting participants introduced themselves (a list of participants is included at Attachment A).

Mr Hartwell noted that the first meeting of this group was in Berkley on 19-21 April 2006 and since this time, an Action Plan has been developed. The Taskforce has also subsequently met informally in Beijing on 18 May 2006. The Action Plan was endorsed by the Policy and Implementation Committee on 11 October 2006.

#### **Agenda Item 1.1 – Review of Workshop Outcomes**

##### **1.1A – Management of PFC Emissions (ATF-06-2)**

Ms Rand outlined that a very successful workshop had been held over the previous two days, with lots of support and participation from industry. Participants were able to hear very detailed explanations of techniques and information at the smelter level on how to avoid anode effects. The workshop stimulated lively discussion and feedback from participants. Ms Rand noted the progress of the project as outlined:

- Identification of demonstration projects – 2 companies have volunteered
- Monitoring and inventory – establish a database
- Analysis of technical options
- Improve awareness – develop & provide tools, training and translated material
- Enhance inventory and data collection (enhance capacity)
- Develop a national inventory in China (using IPCC methodology)
- Further interest in algorithms to identify and anticipate anode effects

Ms Rand noted that Australian Government, Australian companies and the US EPA have committed funds to the project. Ms Rand noted that as agreed at the Berkley meeting, USA & China are the partner organisations for the project. Key contacts for the Chinese side were made at this meeting. The project is on-track to meet the projected milestones by the end of 2007. The area that is currently lagging is data collection and reporting.

##### **1.1B – Management of Bauxite Residue (Red Mud) (ATF-06-3)**

Dr Raj Rajakumar thanked all participants of the preceding workshop and noted that very good discussions had taken place. Dr Rajakumar explained that the partners for this project are Australia, China and India, however there was no Indian participation at the workshop. The workshop detailed different residue storage processes, including wet disposal; sloped deposition; and dry stacking. Alcoa also outline their carbon capture project which is a new development in this area. Dr Rajakumar noted that the presentations during the course of the workshop advanced the thinking in this area, as this was the first time that many of the experts had got together and discussed best residue management processes. The workshop enabled the goals under the action plan to be furthered and more focussed and the scope of the project was discussed in detail.



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The workshop recognised the need for environmentally sound and economical storage practices. Participants agreed there was a need to establish knowledge sharing mechanisms to gain from the various AP6 initiatives underway. As a result, Australia and China agreed to form a Working Group to scope the project further and will invite India to participate in this small Working Group to scope the project and outline a timetable for next steps. Dr Rajakumar noted that the project is on-track to achieve 2007 milestones. The Taskforce noted the Australian Government committed funding for the project.

The Taskforce agreed to the establishment and discussed ways of engaging India to participate, as India's participation was considered very important by the Taskforce.

### **1.1C – High Silica Bauxite Processing (ATF-06-4)**

Dr Raj Rajakumar noted that this workshop was a bit more specialised, but wanted to repeat the same messages as per above in relation to participation and research collaboration. Dr Rajakumar stated that this is a very important area, which had a lot of interest and generated heated debate on priorities under the project. Presentations were given at the workshop by experts on production technologies, differences in the types of reserves and reporting and future technology opportunities. The participants from Australia and China in particular shared a common understanding and purpose on next steps for the project. Participants in the workshop project recommended that a Working Group be established. Dr Rajakumar noted that the project will need to amend some of its 2007 milestones as a result of discussions in the workshop. The Taskforce noted the Australian Government committed funding for the project.

The Taskforce agreed to the establishment of a Working Group under this project also and again discussed ways of engaging India to participate.

### **Agenda Item 1.2 – Review of Other Aluminium Taskforce Projects**

#### **1.2A – Aluminium Recycling (ATF-06-6)**

Mr Steve Larkin noted that aluminium recycling is something that everyone understands, but there are many different applications, which are hard to track. Benchmarks have been identified, which include a standard set of indices and an agreed common reporting format. AP6 members recognise that Japan is the undisputed world leader in recycling, and other members struggle to duplicate Japan's efforts.

This project proposes to shortly circulate a request (to be outlined and reviewed by Governments) on the status of recycling programs in AP6 countries. As a result of this survey, the project aims to come forward with a common recommendation. The group recognises the tight timeframe in delivering the results of this work, but believe it is achievable. While the scope of the survey was intended only for UBCs, it could also include the transport and construction sectors. The lessons learnt from UBCs could then be applied to these other sectors, noting the substantial energy savings from recycling.



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#### **1.2B – Fluoride Emissions Management (ATF-06-05)**

Mr Ron Knapp firstly noted to the Taskforce that a decision was taken early on in this process to delay the start of this project, as members wanted to commence work on the PFC management project first, as both projects focus on pot room operations. Mr Knapp noted that the project is now ready to commence work and have already received nominations from Australian smelters to participate. Mr Knapp outlined that through the Taskforce chair, this group planned to write to China and USA to invite their participation in this project. Mr Knapp noted the difference between management of PFCs and fluoride, whereby fluoride management is a much more local smelter issue and PFC management is a global issue and is much more complex. This project will focus on employee awareness, housekeeping practices and regular scrubbing.

The project will now establish a working team and develop case studies showcasing practical examples of successful fluoride management in smelters in Australia. The International Aluminium Institute (IAI) will also be engaged on the issue of data collection in this area and to check where the gaps remain. Following this, companies in AP6 member countries will be encouraged to achieve these levels outlined by the IAI and ensure that accurate measurement is available.

#### **1.2C – Linkages to Technology Providers (ATF-06-7)**

Ms Katie Lawrence outlined the progress on the Linkages to Technology Providers database project on behalf of Yvonne Noordhuis. The project's progress is not as advanced as anticipated, due to technical difficulties experienced in hosting the proposed database on the official AP6 website. The database will now have its own domain name and will be built and maintained (for the first two years) by the Australian Government. The prototype of the database will be complete by the first week of April 2007, following this, the database will be tested to ensure function and operability. Once a domain name has been identified, Taskforce members will be advised and asked to provide links to the website of their organisation's websites. The launch of the databases is expected to be in mid-May 2007. A general overview of the database operation was circulated to members. The Taskforce noted industry's interest in this database.

#### **1.2D – Aluminium Measuring and Benchmarking (ATF-06-1)**

Mr Steve Larkin outlined that the objective of the project was a report from the IAI with the input of all AP6 members. This will require good cooperation with other projects as indices tracked will include those used in PFC management, fluoride emissions management and recycling. The workshop over the past two days and follow-up with the IAI has shown that there has been considerable progress in this area. The work of CNIA is also a key part to making this a successful project.

Mr Larkin noted that there is a common understanding that the IAI format for reporting was the preferred way to go. While the project is making some progress, there is still work to be done in gaining consistency in format. There is also further training required in achieving consistent reporting. Overall the strategy is the right one, the forms are there, they just need to be filled in. It is anticipated that the upcoming April meeting will go some way to familiarise participants with the format of the forms.



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#### Agenda Item 1.3 – Consideration of Cross Sectoral Projects

Mr Hartwell noted that as chair of the Taskforce, he wrote to the chairs of the Steel and Cement Taskforces in August 2006, noting the potential areas of cross sectoral work, however no response was received. Mr Hartwell did note however that at the recent Steel Taskforce meeting held in India (14-16 March 2007), that the Steel Taskforce would like feedback on the bauxite residue workshop as soon as possible. The Cement Taskforce is expected to meet in India in April 2007 and this issue is likely to added to their agenda.

Mr Hartwell distributed CDs contained electronic copies of Chinese & English handbooks produced by the Australian Government under the Coal Mining Taskforce on themes such as rehabilitation and stewardship. A handbook on tailings management has also been launched in February 2007 and is currently be translated into Chinese. All handbooks are available on the Australian Government's program's website – the '*Leading Practice Sustainable Development Program for the Mining Industry*' – [www.industry.gov.au/sdmining](http://www.industry.gov.au/sdmining).

#### Agenda Item 1.4 – Other Business

##### P&IC Update

Mr Hartwell sought an update from representatives from the US Department of State on the next meeting of the Policy & Implementation Committee and Ministerial meeting. Members were advised that it is planned that the P&IC will meet in June 2007 and timing for the Ministerial meeting is still be worked out, but may be in late 2007 in India. It was also suggested that any content that this Taskforce is producing may be included on the official AP6 website, as there is libraries with scope for different languages, a mailing list and a calendar function for upcoming meetings and relevant conferences. Members agreed to consider including relevant public content on these pages. It was agreed that this should be considered as part of the P&IC broader outreach strategy currently under development.

##### Next Meeting

It was suggested that the next meeting be held in Hyderabad, India, in the margins of the INCAL 2007 Conference (21-23 November 2007). Taskforce members attending the meeting in Dubai next week agreed to discuss the proposal with the relevant Indian officials to ensure commitment by the Indian members. The Taskforce agreed to defer the decision on next meeting date and location until India's position is understood.

##### Close

A number of Chinese participants at the meeting then updated members on their agencies' support and involvement in the work of this Taskforce. Mr Hartwell closed the meeting at 16:15 and thanked members for their participation and the Chinese Government for hosting the meeting and the workshop.

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Katie Lawrence  
A/g Aluminium TF Secretary  
24 March 2006



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ATTACHMENT A

### PARTICIPANT LIST

AP6 COUNTRY	ORGANISATION	NAME
<b>Australia</b>	Department of Industry, Tourism and Resources	Mr John Hartwell
Australia	Department of Industry, Tourism and Resources	Ms Katie Lawrence
Australia	Australian Aluminium Council	Mr Ron Knapp
Australia	Australian Aluminium Council	Mr Michael Ison
Australia	CSIRO (Light Metals Flagship)	Dr Raj Rajakumar
<b>China</b>	CNIA	Mr Pan Wenju
China	CNIA	Mr Wang Guongmin
China	CNIA	Mr Bian Gang
China	CNIA	Mr Wen Xianjun
China	CNIA	Mr Tao Zun Hua
China	National Development Reform Commission	Ms Yu Wei
China	National Development Reform Commission	Mr Gao Hairan
China	National Development Reform Commission	Mr Cui Cheng
China	CHALCO	Mr Wan Hong Yan
China	CHALCO	Mr Zhang Guibin
<b>India</b>	--	--
<b>Japan</b>	Ministry of Economy, Trade and Industry	Mr Toshimi Takigawa
<b>United States</b>	Department of Commerce	Mr David Cammarota
United States	Environment Protection Agency	Ms Sally Rand
United States	Department of State	Ms Barbara De Rosa Joynt
United States	Department of State	Ms Nancy Holt
United States	The Aluminium Association	Mr Steve Larkin
United States	The Aluminium Association	Mr Bob Strieter
United States	J Marks Associates	Mr Jerry Marks