

NATIONAL RESEARCH COUNCIL
TRANSPORTATION RESEARCH BOARD

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TRB Committee – Environmental Impacts of Aviation – AV030
Meeting Minutes
Annual Meeting
May 23, 2006

Meeting Location: Seattle-Tacoma International Airport

1. Attendance

See attached. Burr Stewart welcomed the attendees on behalf of the Port of Port of Seattle.

2. Members and Membership

Katherine Andrus discussed opportunities for adding new members and membership requirements for the Committee. In addition, the Committee discussed TRB rules regarding activities while on the Committee. For example, Members and Friends do not represent their employer while engaged in TRB activities and speak as individuals, not for their organization. Further, Members and Friends cannot identify as Member or Friend when opining on a policy or related issue. However, the Committee and its Members can make recommendations for areas of research.

Critical issues – update again this year and annually

3. Triennial Strategic Plan Review

Steven Davis-Mendelow discussed the Committee's strategic plan, which is up for its triennial review. Mr. Davis-Mendelow passed around the current strategic plan and indicated that it needed an appended action plan that described how the strategic plan would be implemented over the next few years. Ms. Andrus, Mr. Stewart and Mr. Davis-

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Mendelow will take the lead in updating the plan. Among the issues discussed for consideration in the plan are whether to (1) include the concept of sustainability, (2) add language addressing a global reach, (3) consider addressing the evaluation of research, i.e., how we will know when we reach some of the goals espoused by the Committee; (4) identify growth in aviation as a consideration; and streamline the list of strategies to information sharing, prioritizing research needs and coordinating funding and personnel for research. The annual meeting, mid-year meeting and critical issues papers were identified as the primary mechanisms for implementing the Committee's plan.

4. Call for Papers

Burr Stewart filed a call for papers with the TRB; we are the only aviation committee so far with a request posted. Mr. Stewart noted that the Committee will accept papers on any other topic contained within the Committee's critical issues papers. He also noted that a poster session would be another option for encouraging more research on issues of interest to the Committee. The Committee discussed the desire to take up the call for papers during the annual meetings in order to better fit within the annual TRB cycles. In addition, the Committee agreed that it would make sense to establish a process to create a pipeline for papers and posters, including the potential recruitment of professors, students, the Centers for Excellence and others to publish work being done through the Committee's call for papers or posters. In addition, the Committee may also be able to act as another outlet for published PARTNER materials.

5. Liaison with Other Committees

Katherine Andrus encouraged Members to interact with other TRB committees, which will help foster the mission of this Committee through the dispersion of information and leveraging resources such as sessions at conferences.

6. Airports Cooperative Research Program ("ACRP")

Burr Stewart provided an update on the ACRP and encouraged all to visit its website, www.trb.org/acrp. The ACRP has \$10 million for research on issues of concern to airports as a group, with a focus on applied research that can be rolled out in the near term. There was discussion regarding the possible future role of the Committee in disseminating research that has been conducted through the ACRP.

Christine Gerencher is the staff contact for ACRP and this Committee and can assist with any questions.

7. Joint Planning and Development Office ("JPDO")

Lourdes Maurice provided a quick update regarding the activities of the JPDO, which is developing a plan/strategy for next generation air transportation for 2025. Environmental issues are playing an increasing role in the JPDO activities, with an Environmental Integrated Product Team chaired by Carl Burleson of FAA.

8. Annual Meeting Planning

Katherine Andrus provided an update for the process for securing and finalizing slots for annual meeting sessions. Jessica Steinhilber agreed to coordinate dinner and other activities at the Annual Meeting.

9. Preview of Alternative Fuels for Aviation Workshop

The Committee discussed the upcoming Alternative Fuels workshop to be held on May 24 with which the Committee and a number of its Members had assisted. Participants considered the need to define a vision for success of this effort and what vehicle would make sense to keep moving forward (e.g., new committee, larger TRB effort, annual meeting session). There was a sense that the Committee should continue to evaluate its role in this effort, along with other committees such as AV040. John Pehrson agreed to report back to the group regarding outcome of the workshop.

10. Mid-Year Meeting 2007

The Committee looked to Denver as the location for a day and a half-long 2007 mid-year meeting. The Meeting may include a program regarding climate change issues.

11. Critical Issues/Annual Meeting Sessions

The Committee devoted extensive time to discussing the next edition of the critical issues papers and potential topics for the upcoming annual meeting. The Committee will update the critical issues papers this year and continue to do so annually. In addition, it was determined to continue to develop a new paper regarding climate change. John Putnam has agreed to generate a first draft and work with other interested Members and Friends of the Committee to refine.

Among the top candidates for annual meeting sessions for 2007 were (1) alternative fuels progress update; (2) aviation and air-quality related health issues; (3) intermodal environmental modeling; (4) green operations; (5) VLJs and noise metric evolution; and (6) the “cartography” of aviation environmental players and research.

Other topics considered included:

- Health issues such as small particulate matter and in-cabin air quality
- Workplace environmental issues such as radiation exposure for flight attendants and pilots
- Cradle-to-cradle design
- What is sustainability?

Minutes

AV030 - Environmental Impacts of Aviation

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- Water – Deicing ELGs
- Tools/interdependencies
- Intermodal issues – common currency/metrics
- Green machines – global view
- Design trades/interdependencies
- Cultural aspects of environment and aviation -- developing countries? perspective on environmental issues in aviation
- Environmental legacies -- older sites
- Low-level noise from high altitudes -- availability of metrics -- audibility
- New populations exposed to operations
- Understanding by public of metrics
- Supersonics
- Impacts of higher fuel prices -- tradeoffs with noise abatement procedures
- Effects of different fleet mix assumptions – VLJs, large A/C – potential changes in operations based on different fleet – differences based on NAS evolution