



Next Generation Air Transportation System
Joint Planning and Development Office

1500 K Street, N.W.
5th Floor
Washington, D.C. 20005
202-220-3300
fax 202-220-3476

Request for Private Sector Participation

Requesting Team/Organization: Environment WG/JPDO

Chair Names: Carl Burleson, FAA, and Betty Hawkins, ATA

Brief Description of the Team's Task

The Environment Working Group (WG) is responsible for the Next Generation Air Transportation System (NGATS) strategy to develop environmental protection that allows sustained aviation growth. The WG researches, develops, implements, and maintains the NGATS environmental protection strategy. The primary environmental constraints on the capacity and flexibility of NextGen are community noise, air quality, global climate impacts, water quality, and energy production and consumption. Chaired by FAA's Office of Environment and Energy and the Air Transport Association, the Environment WG includes an Executive Committee, Executive Secretariat, and Standing Committees. The Executive Committee includes representatives from FAA; other Federal agencies; industry (manufacturers, airlines, and airports); local, regional and state agencies; local community/airport organizations, environmental NGOs; and others. Executive Committee members should have sufficient authority in their respective agencies to address budget and policy matters relevant to the WG. Five WG Standing Committees (Science/Metrics, Analytical Tools, Operations, Technology, and Policy) have been formed. Based on technical expertise, the Standing Committees lead the work to achieve the goals of the Joint Planning Development Office (JPDO) environmental protection strategy including refining the understanding of problems and options for future solutions, assessing existing programs and plans, leveraging what is available, and identifying gaps and key questions for further research and development. Key environmental goals and objectives initially identified by the Environment WG are attached.

Expected Products and Timeframes

The Environment WG Work Plan is revised and updated annually to consider significant new developments (e.g., private sector participation on panels and input) and outline Fiscal Year activities.

Required Expertise and Skill Mix

The Technology Standing Committee requires representatives from **an aircraft propulsion company** with knowledge of technology development plans for emissions reduction, noise reduction, and more efficient fuel burn. The representatives also should possess an understanding of the related gaps requiring further research and development along with experience interfacing with associated government and academic research entities.

Standing Committees members should have sufficient technical expertise and authority to lead the work to achieve the goals of the JPDO environmental protection strategy including refining the understanding of problems and options for future solutions, assessing existing programs and plans, leveraging what is available, and identifying gaps and key questions for further research and development.

The expectation is that WG members will spend approximately 10-25% of their time supporting WG activities.

Expected Time Commitment of Participant – duration and level of effort (*WG Meeting Schedule and/or other indication of required level of effort*)

Duration: Participants are asked to commit to serve a minimum term of one year.

Level of Effort: Members participate in a 1-hour monthly Standing Committees telephone conference and Standing Committees meetings, scheduled on an as-needed basis. Members also support broader Environment WG activities (e.g., Standing Committee Chair and/or Executive Committee), if and as needed. In addition, members will need to spend time outside of meetings reading WG e-mails and preparing materials for telecoms/meetings or JPDO deliverables.

Additional Information

Required attributes of WG members:

- Able to share their expertise on stakeholder perspectives (includes direct access to key leaders in represented constituency)
- Able to transcend parochial interests of represented constituency and take a national/international perspective
- Willing to challenge/test their own beliefs and assumptions

- Commitment to maintain privacy of WG work products until release by the WG/JPDO
- Able to attend or be present (via telecon) for most WG meetings

More information on the Next Generation Air Transportation System Joint Planning & Development Office can be found at <http://www.jpdo.aero>.

Attachment

Key Environmental Goals and Objectives

In developing the initial plans, policies, and resource estimates for the environmental portion of the NGATS plan, the following are the initial goals identified by the Environment WG:

- Reduce the impacts of significant aviation noise to community well being in absolute terms, notwithstanding the growth in aviation.
- Reduce the significant air quality impacts of aviation on local communities in absolute terms, notwithstanding the growth in aviation
- Develop the appropriate metrics and models to measure aviation's environmental impacts for the system of 2025.
- Gain sufficient knowledge of the particulates and hazardous air pollutants effects of aviation to determine significant impact
- Gain sufficient knowledge of climate change effects of aviation to enable appropriate means to mitigate these effects.
- Reduce significant levels of water runoff from airports to minimize impacts on local community water resources
- Foster communication, ideas, and joint action between WG and communities around airports.
- Facilitate global leadership in developing operational, technology, and policy options to address mobility and environmental needs.
- Advance capacity growth at the key airports by fostering capabilities and process to streamline environmental reviews.
- Ensure standards exists in a timely fashion to enable new operations, such as domestic supersonic flights, space launches, low altitude reconnaissance, alternate fuel air vehicles, etc.