

**Requesting Team/Organization: Air Navigation Services Working Group**

**Co-Lead Names: James Weatherly and Bob Beard**

**Brief Description of the Team's Task**

- A. Provide thorough study, accurate analysis and insightful recommendations on the advanced technologies, procedures, policies and technologies needed to achieve the NextGen vision.
- B. Specifically, the mission of the ANS WG is to:
  - Bring together member agencies, industry and other institute members for cooperation on the evolution of ANS in NextGen
  - Develop detailed concepts of operation in the ICAO defined area of Air Navigation Services to further define the NextGen Concept
  - Develop operational requirements for the NextGen ANS mission based on the concepts
  - Identify the functional systems needed for NextGen implementation and identify performance requirements derived from the operational requirement and validation activities
  - Identify Policy, Research and Development, and Key Decisions necessary for NextGen ANS realization
  - Provide operational and technical expertise to other working groups and to the NextGen evaluation activities, including costs and benefits
  - Integrate and harmonize the activities and products of the ANS WG with those of other working groups and divisions

**Expected Products**

Recommendations regarding future revisions of NextGen Concept of Operations; the NextGen Integrated Work Plan; and the NextGen Enterprise Architecture to include but not limited to changes in Operational Improvements and enablers to them. The ANS WG also produces JPDO Position Papers that provide further details and elucidations to the above mentioned documents in specific focus areas through the work of various study teams and standing committees.

**Required Expertise and Skill Mix**

The Air Navigation Services Working Group requires representatives who have a working understanding of air traffic control operations plus specific in-depth knowledge and skill in one or more of the following areas: specification of future concepts for air traffic management, advanced communications technologies applicable for future systems (air/ground, ground/ground or air/air), current and future navigation systems, specification and development of future automation systems for air traffic management/control, future concepts for high-density Terminal and/or En Route operations, traffic flow management operations, concepts and/or systems, surface traffic monitoring and management, current and future concepts for aircraft systems for guidance and control, flight/airline operations center (FOC/AOC) operations and/or management, civil and/or

military air traffic control operations, airspace design, airframe design and manufacture, and aircraft fleet scheduling operations.

**Expected Time Commitment of Participant – duration and level of effort** (ANS 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 day-long Working Group meeting monthly that can be attended in person or via telecom. Additional meetings and teleconferences may be scheduled on an a-needed basis.

Members also support broader ANS activities, if and as needed. In addition, members will need to spend time outside of meetings reading e-mails and reviewing and commenting on various NextGen reports and studies generated by JPDO and/or its partner agencies. Additionally, members will commit time to preparing materials for telecoms/meetings or JPDO deliverables.

The expectation is that members will spend approximately 20% of their time supporting ANS activities.

**Additional Information**

Required attributes of ANS members:

- Able to share their expertise on stakeholder perspectives (includes direct access to key leaders in represented constituency)
- Able to contribute to and evaluate technical studies and reports and provide timely and helpful feedback when required/requested
- Able to transcend parochial interests of represented constituency and take a national/international perspective
- Willing to challenge/test own beliefs and assumptions
- Commitment to maintain privacy of work products until release by the ANS/JPDO
- Able to attend or be present (via telecom) for most ANS meeting (during the first year)

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