Committee for the Review of the Federal Aviation Administration Research Plan on Certification of New Technologies Into the National Airspace System

November 19-21, 2014
NAS Keck Building Room 105
500 Fifth Street, NW, Washington, DC 20001

Wednesday, November 19, 2014

CLOSED SESSION

8:00 am  Room opens (breakfast available in the room)
9:00 am  Meeting convenes; opening remarks  Study Director/Chairs
9:05 am  Bias and Conflict Discussion  Study Director
9:45 am  Discussion of Task  Committee
10:45 am  Break (15 minutes)

OPEN SESSION

11:00 am  The FAA Research Plan for Certification of New Technologies  Tom Tessitore
           Research Project Manager  FAA Technical Center
12:00 pm  Working lunch; discussion continues
1:00 pm  The FAA Research Plan for Certification of New Technologies  Eric Neiderman
           Manager, FAA Aviation Research Division
2:00 pm  Congressional perspective on need for FAA Research Plan  Allen Li
           House Science, Space and Technology Committee
3:00 pm  Break
3:15 pm  A view of certification for NextGen  Dres Zellweger
           Former FAA Director of Aviation Research
4:15 pm  NRC study on autonomy research agenda  Alan Angleman
           Aeronautics and Space Engineering Board
Thursday, November 20, 2014

**OPEN SESSION**

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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Organization</th>
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<tr>
<td>8:00 am</td>
<td>Rooms opens (breakfast available in the room)</td>
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<tr>
<td>8:55 am</td>
<td>Meeting convenes; opening remarks</td>
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<tr>
<td>9:00 am</td>
<td>A4A’s view of certification</td>
<td>Paul McGraw</td>
<td>A4A</td>
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<td>10:00 am</td>
<td>RTCA’s view of certification</td>
<td>Andy Cebula</td>
<td>RTCA</td>
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<td>11:00 am</td>
<td>Break (15 minutes)</td>
<td>Jay Merkle</td>
<td>FAA</td>
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<tr>
<td>12:15 pm</td>
<td><strong>Working lunch</strong>: discussion continues</td>
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<td>1:00 pm</td>
<td>TBD</td>
<td>Natesh Manikoth</td>
<td>FAA</td>
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<td>2:00 pm</td>
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**Note**: Committee will probably go into closed session at this time

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<tr>
<td>3:00 pm</td>
<td><strong>Break (15 minutes)</strong></td>
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<td>3:15 pm</td>
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<td>4:50 pm</td>
<td>Final Remarks</td>
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<td>5:30 pm</td>
<td>Meeting suspends</td>
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Friday, November 21, 2014

**CLOSED SESSION**

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<td>9:00 am</td>
<td>Meeting convenes; opening remarks</td>
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<tr>
<td>9:05 am</td>
<td>Overview/Introductions</td>
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10:45 am     Break (15 minutes)
12:00 pm     Working lunch; discussion continues
1:00 pm      Meeting Ends

The following information is provided for any members of the general public who may be in attendance:

This meeting is being held to gather information to help the committee conduct its study. This committee will examine the information and material obtained during this, and other public meetings, in an effort to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn at this time and no recommendations will be made. In fact, the committee will deliberate thoroughly before writing its draft report. Moreover, once the draft report is written, it must go through a rigorous review by experts who are anonymous to the committee, and the committee then must respond to this review with appropriate revisions that adequately satisfy the Academy’s Report Review committee and the chair of the NRC before it is considered an NRC report. Therefore, observers who draw conclusions about the committee’s work based on today’s discussions will be doing so prematurely.

Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person’s future position as it may evolve in the course of the project. Any inference about an individual’s position regarding findings or recommendations in the final report are therefore also premature.

Last updated: November 12, 2014, 3:30 PM
Committee for the Review of the Federal Aviation Administration Research Plan on Certification of New Technologies Into the National Airspace System

Statement of Task

An ad hoc committee under the auspices of the National Research Council will conduct an assessment of the Federal Aviation Administration's plan for research on methods and procedures to improve both confidence in and the timeliness of certification of new technologies for their introduction into the National Airspace System (NAS).

The FAA research plan, which will be publicly available, focuses on air-ground and ground-based system approval. The research focus areas in the plan include:

• Systems Engineering
• Requirements Development
• Human Factors
• Software Development
• Verification, Validation & Testing
• Software Design Assurance
• Training
• Operational Evaluation

The committee will:

• Provide an analysis of the FAA's proposed research, as described in the research plan, focused on how implementing the plan may improve both timeliness and confidence of certifying new technologies into the NAS as requested in the FAA reauthorization section 905.
• Identify for each focus area any specific actions that may have been successful in similar activities within and external to the FAA;
• Provide an assessment of planned research outputs in meeting the wording in the 2012 FAA Modernization and Reform Act “to conduct research on methods and procedures to improve both confidence in and timeliness of certification of new technologies for their introduction into the national airspace system”;
• Comment on general readability and clarity of presentation of the research plan; and
• Provide comments on or recommendations on other issues determined by the committee.