Friends and Partners Meeting
Vision for Aviation Weather Policies

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September 12, 2005
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Agenda

• Objective of Policy Activity
• Make-up of Policy Team
• Policy Criteria
• Methodology
  – Policy Identification
  – Policy Analysis
• Policy Categories
Objective of Policy Activity

Identify weather policy issues associated with the Next Generation Air Transportation System (NGATS)
- ensure sound, timely analysis
- recommend solutions to the JPDO.
Make-up of Policy Team

- Al Kaehn (NOAA)
- Bill Phaneuf (ALPA)
- Dave Metzbower (FAA)
- Jeremy Andrucyk (NWS)
- John Murray (NASA)
- Kevin Johnston (NWS)
- Mark Andrews, IPT Lead
- Nick Stoer (Consultant)
- Richard Deininger (Boeing)
- Ron Colantonio (NASA)
- Steve Green (NASA)
- TBD (ATO Safety)
- TBD (Institute Representative)

- Arnold Lee (IAI)
- Bruce Carmichael (NCAR)
- Gene Wilhelm (CAASD)
- John McCarthy (IPT Co-Chr)
- Ken Leonard (FAA)
- Lisa Bee, Deputy IPT Lead
- Mark Weber (Lincoln)
- Paul Stough (NASA)
- Rick Heuwinkel, Chair (FAA)
- Sadegh Kavoussi (Avmet)
- TBD (Aircraft Cert, FAA)
- TBD (Air Transport, FAA)
Policy Criteria

• To be considered *policy*, a weather issue must meet *all* of the following criteria:
  
  – **Business Case Plus:** Business Case alone is insufficient basis for decision. A judgment call is also needed.
  
  – **High Level:** Decision to be made at agencies’ Senior Executive level or higher.
  
  – **Strategic:** Is significant to the realization of the NGATS
Methodology--Policy Identification

• Potential policy issues identified by:
  – JPDO or WxIPT Leadership
  – Other IPT’s in JPDO
  – WxIPT Teams
  – Policy Team

• Issue Statement developed by author or Policy Team

• Assessment of Issue against Policy Criteria

• Prioritization of Policy Issues

• Policy Analyses Assigned
Methodology -- Policy Analysis

- Statement of issue & how it meets policy criteria
- Describe how weather subsystem works today
- Identify drivers for change
- Identify policy choices
- Identify pros and cons of alternatives
- Recommendation
Policy Categories

- Government and Private Sector Roles & Responsibilities
- Standards
- Who Pays for What
- Controllers’ Roles Re Weather Information
- Technical/Operational Service Issues
- Interagency Roles & Responsibilities
Government & Private Sector Roles & Responsibilities

What will be the government’s role in provision of “official” weather information (current and future, three dimensional, digital) to all NAS decision makers in terms of:

- Observations
- Generation of weather information
- Dissemination
- Display design
- Display systems
- Standards for the above
Standards

• **Consistency**: Assuming continued mixed government and private provision, how do we ensure that weather information available to all decision makers in the NAS is consistent in terms of?
  – Temporal and spatial consistency
  – Intensity of the phenomena
  – Useability of the airspace

• **Regulations & Procedures**: What changes in regulations and procedures are needed to optimize safety and efficiency of operations under NGATS?
Who Pays for What

- Who pays for in-situ aircraft data?
- Who pays for generation and uplink of weather information to the cockpit?
- Who pays for access costs and communication costs from government ports to end users?
Controllers’ Roles Re Weather Information

- Will controllers assume responsibility for tactical separation of aircraft from hazardous weather?
- Will controllers continue to bear the responsibility for relay of weather information to the cockpit?
Technical/Operational Issues

- Will the code for digital weather information be BUFR, GRIB, or some other code?
- How long will government continue to produce legacy products and product forms (e.g., alphanumeric descriptions of weather phenomena) after the same information is available in digital format?
- Which weather information will be produced in probabilistic terms and how will it be phased in?
Interagency Roles & Responsibilities

• How will interagency weather R&D be managed for efficiency and rapid implementation?
• Which agency(ies) will develop, manage, and maintain the 4D weather information network?