

Human-System Integration

Mr. **GORDON**.

6. **ARA** In response to a recommendation by the RE&D Advisory Committee that FAA develop comprehensive human-system integration plans, FAA's response was that

*“funding constraints do not accommodate robust assessment of human-system integration considerations across all operational conditions associated with new technologies and capabilities”*

- a. What has been the experience at FAA when new technologies were introduced into operating environments without adequate consideration of human factors?
- b. What is the rationale for the FY 04 budget request for human factors research, which is 5% below the FY 03 appropriated level?

**Response to item a:**

Past experience such as with the Standard Terminal Automation Replacement System has been that human-system integration issues are most effectively addressed by staffing human factors practitioners in the acquisition Integrated Product Teams (IPTs). These practitioners are responsible for developing comprehensive human factors program plans, conducting assessments to identify human-system integration issues, and recommending resolutions for their mitigation.

**Response to item b:**

To ensure effective implementation of new technologies, the IPTs use Facilities and Equipment and operations funding sources for their human factors practitioners to undertake the necessary studies of human-system integration. Human factors reviews of these studies show that the IPTs can effectively address implementation issues without impact from reduced FY04 funding for human factors research.