

General Aviation

Title: Causal factors of accidents and incidents attributed to human error

Research Statement:

This requirement objective is to use identify potential data sources to identify causes of general aviation human error accidents as well describe potential remedies. The outcome of the research should be to develop and standardize methodologies for identifying, defining, and monitoring human error based incidents and accidents.

Background:

Intent is to provide better recording of human factors aspects of accidents so that subsequent analyses can more accurately depict the true underlying causal factors.

Output:

Develop and validate a standardized methodology for conducting accident investigation in which human error is cited as the cause or contributor to the accident. This effort must produce a product that does a much better job in the assessment of incidents attributable to human error in the cockpit/flight deck.

Regulatory Link:

a. Supports Safer Skies through Areonautical Decision Making (ADM) JSATb. AOA (FAA) Strategic Plan (1998-2003) Mission Goal:Safety. Key Strategies "to enable the goal to include identification of root causes of past accidents; and (2) use a more proactive analytical approach, with new data sources, to identify key risk factors and intervene to prevent potential causes of future accidents" (Page 13).c. FY2001 Performance Plan: Focus Area: Accident Prevention. "Aviation Human Factors to coordinate human factors research, development and based on detailed causal analysis" (Page 2)d. AVR Performance Plan:Reduce General Aviation fatal accidents (pg 2). Contribute to aviation safety by developing policies,standards, programs, and systems to reduce the number of aviation accidents and incidents related to human factors (pg 9)