

**Docket No. SA-530**

**Exhibit No. 8-O**

**NATIONAL TRANSPORTATION SAFETY BOARD**

**Washington, D.C.**

Small Aircraft Crash Resistant Flight Recorder Safety  
Recommendations (January 2009)

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1. Require the installation of a crash-resistant flight recorder system on all newly manufactured turbine-powered, nonexperimental, nonrestricted-category aircraft that are not equipped with a flight data recorder and are operating under 14 *Code of Federal Regulations* Parts 91, 121, or 135. The crash-resistant flight recorder system should record cockpit audio (if a cockpit voice recorder is not installed), a view of the cockpit environment to include as much of the outside view as possible, and parametric data per aircraft and system installation, all to be specified in European Organization for Civil Aviation Equipment document ED-155, “Minimum Operational Performance Specification for Lightweight Flight Recorder Systems,” (Supersedes Safety Recommendation A-03-62)
2. Require all existing turbine-powered, nonexperimental, nonrestricted-category aircraft that are not equipped with a cockpit voice recorder and are operating under 14 *Code of Federal Regulations* Parts 91, 121, or 135 to be retrofitted with a crash-resistant flight recorder system. The crash-resistant flight recorder system should record cockpit audio, a view of the cockpit environment to include as much of the outside view as possible, and parametric data per aircraft and system installation, all to be specified in European Organization for Civil Aviation Equipment document ED-155, “Minimum Operational Performance Specification for Lightweight Flight Recorder Systems,” (Supersedes Safety Recommendation A-03-64)
3. Require all existing turbine-powered, nonexperimental, nonrestricted-category aircraft that are not equipped with a flight data recorder and are operating under 14 *Code of Federal Regulations* Parts 91, 121, or 135 to be retrofitted with a crash-resistant flight recorder system. The crash-resistant flight recorder system should record cockpit audio (if a cockpit voice recorder is not installed), a view of the cockpit environment to include as much of the outside view as possible, and parametric data per aircraft and system installation, all to be specified in European Organization for Civil Aviation Equipment document ED-155, “Minimum Operational Performance Specification for Lightweight Flight Recorder Systems,” (Supersedes Safety Recommendation A-03-65)