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Introduction Of Glass Cockpit Avionics Into Light Aircraft

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into Light Aircraft



Safety Study
NTSB/SS-01/10
PB2010-917001



National
Transportation
Safety Board



Synopsis

In a span of only a few years, the cockpits of new light aircraft have undergone a transition from conventional analog flight instruments to digital -based electronic displays commonly referred to as "glass cockpits." These new displays integrate aircraft control, autopilot, communication, navigation, and aircraft system monitoring functions, applying technology previously available only in transport-category aircraft. The enhanced function and information capabilities of glass cockpits represent a significant change and potential improvement in the way general aviation pilots monitor information needed to control their aircraft. The National Transportation Safety Board (NTSB) initiated this study to determine if the transition to glass cockpits in light aircraft has improved the safety record of those aircraft. Three different approaches were used in this study. First, a retrospective statistical analysis of manufacturer records, aircraft investigation information, and activity survey data was conducted to compare the accident experience of recently manufactured light single-engine airplanes equipped and not equipped with glass cockpit displays. Second, an evaluation of glass cockpit training requirements and resources was conducted to characterize the training and to identify areas for potential safety improvement. Finally, accident cases were reviewed to identify emerging safety issues associated with the introduction of glass cockpit displays into this class of aircraft.

Book Information

File Size: 3408 KB

Print Length: 90 pages

Publication Date: April 10, 2017

Sold by: Digital Services LLC

Language: English

ASIN: B06Y6DDNKX

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Screen Reader: Supported

Enhanced Typesetting: Enabled

Best Sellers Rank: #2,051,811 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #71

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