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**COMMERCIAL AND BUSINESS AVIATION ADVISORY CIRCULAR**

**No. 0141**

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**Notice to Pilots and Air Operators - Low-Energy Hazards/ Balked Landing/Go-Around**

**INTRODUCTION**

The purpose of this Commercial and Business Aviation Advisory Circular (CBAAC) is to notify pilots and air operators of the potential hazards associated with a balked landing or go-around.

**BACKGROUND**

During the aircraft certification process, handling procedures and performance are assessed across a wide range of operating weights, configurations, and flight profiles. The Aircraft Flight Manual defines the boundaries within which the aircraft may be operated safely.

It is a common belief among pilots and many air operators that aircraft are certified to successfully complete a balked landing or go-around from any point during the approach or landing phase. This is not the case.

In brief, an aircraft is not certified to successfully complete a go-around without ground contact once it has entered the low-energy landing regime. For the purposes of this CBAAC, the low-energy landing regime is defined as:

1. aircraft flaps and landing gear are in the landing configuration;
2. aircraft is in descent;
3. thrust has stabilized in the idle range;
4. airspeed is decreasing; and
5. aircraft height is 50 feet\* or less above the runway elevation.

*\* Note: 50 feet is a representative value. A given aircraft may enter the low-energy landing regime above or below 50 feet in accordance with approved landing procedures for that type.*

## **POLICY**

The decision to place an aircraft into the low-energy landing regime is a decision to land. If there is any doubt regarding the probability of a safe landing, a go-around or balked landing must be initiated prior to entry into this regime.

An attempt to commence a go-around or balked landing while in the low-energy landing regime is a high-risk, undemonstrated maneuver.

In the extreme case where such action is required, pilots should be aware that ground contact is likely and any attempt to commence a climb before the engines have achieved go-around thrust may result in a stall. Turbo-fan engines may require as long as eight seconds to accelerate from idle to go-around thrust.

Air operators should immediately ensure that their pilots are aware of the hazards associated with low-energy go-arounds or balked landings and verify that their training programs address this area of operation.

## **IMPLEMENTATION PROVISIONS**

This Advisory Circular is in effect until further notice.

## **CONCLUSION**

This Advisory Circular is intended to advise air operators and pilots concerning the hazards associated with low-energy balked landings or go-arounds. Affected operators should review their operations to ensure that pilots and training personnel are adequately aware of the hazards inherent in and procedures for dealing with low-energy operations.

M.R. Preuss  
Director  
Commercial & Business Aviation