

JTSB Safety Recommendation to the TCCA

August 27, 2010

Aircraft Serious Incident - JA847C (Bombardier DHC-8-402)
Operated by Japan Air Commuter
Occurred at Approximately 6km NNW of Tanegashima Airport on Mar. 25, 2009

In view of this serious incident, the Japan Transport Safety Board recommends that Transport Canada Civil Aviation (TCCA) give careful consideration to the following and take necessary measures thereof :

- (1) Considering the detrimental effect on safety brought about by the inclusion of impurities in the RGB helical input gearshaft of the engine involved in this serious incident, P&WC, the manufacturer of the engine, should make company-wide efforts including the management of the metal stock supplier and component manufacturer serving P&WC, towards improved quality control concerning the production of the RGB helical input gear shaft.
- (2) P&WC assigned a hazard severity of “Significant – Level 3” to this serious incident by considering only the occurrence of an IFSD as the basis for the risk level determination, but the actual conditions included the loss of all functions of the feathering system for the propeller of the shutdown engine in addition to the engine in IFSD.

The risk assessment of this serious incident should not be made only on the engine necessitating an IFSD, but instead the incident must be reassessed from the viewpoint of the safety of the entire aircraft, and safety improvement actions should be taken if the results of the reassessment indicate this to be necessary.