

WATER TROUGH TESTS



Definition

When taking off or landing on a contaminated runway with a significant amount of water, the water spray created by wheels may affect the performance of the engines, the landing gear, the brake systems and other parts of the aircraft.

Purpose of the Flight Tests

To roll at high speed through a water trough specifically installed on a runway and to ensure the water spray does not affect the various systems of the aircraft. These tests are performed in different aircraft configurations (i.e. slat / flaps, engine thrust, thrust reversers) to simulate take off and landing on a severely contaminated runway.

Application to Line Operations

The flight crews should remain confident about the aircraft's system resilience when operating on a contaminated runway with a significant amount of water.

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