

Sikorsky
6900 Main Street - P.O. Box 9729
Stratford, Connecticut 06497-9129



Date: 24 July 2017
To: Thai Aviation Services Limited
Attention: James O'Brien
Regarding: Uncommanded Engine Shutdown After Rinse-Pilot Concerns
Technical Case #: C0065862

James O'Brien,

Sikorsky Engineering states the following:

The question is predominantly a question of engine design so the operator can obtain the best information by contacting PWC directly. The following is response from Sikorsky's knowledge of PWC's design and of the engine installation:

Regardless of annunciation, the FADEC detects flameout by Ng rate of change or Ng speed below the idle threshold when the throttle is set to idle or higher. During a flame-out event, when Ng drops 10% below the scheduled idle speed, the FADEC completes the shutdown and cuts off fuel. During coast down, the PWC engine ecology fuel system flow divider design retracts fuel from the fuel injector nozzles and line lines and returns to fuel tank. On each engine, a combustor drain captures any fuel which has dribbled from the fuel nozzles and connects to an aircraft drain line which is routed down inside the fuselage to an overboard vent and drain fitting on the bottom side of the fuselage. The drain lines extend past the aircraft skin and are surrounded by a fuel deflector in order to ensure the fluid exiting the drain does not reattach to the aircraft skin.

Regards,

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