



CATCH OF THE WEEK

Faulty electronic engine control detected on a jet engine



Customer Success Story from
GE's Industrial Performance & Reliability Center

What did GE's analytics software find?

GE developed and deployed our Proficy SmartSignal software at a large aviation customer to use in its own monitoring and diagnostics center to predict jet engine problems early.

This customer replaced a jet engine's electronic engine control (EEC) on June 19. Afterwards, a Reliability Engineer in the monitoring center noted that the SmartSignal software indicated a shift in fuel flow (FF) on this same engine. The center investigated this issue, scheduled a time to take the plane out of service, found that the new EEC was faulty, and replaced it on July 10. The FF trend returned to expected values.

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What was the underlying cause?

The EEC was sending incorrect information to the engine, causing an increase in FF.

What was the value to the customer?

During the time that the EEC was faulted, the jet engine was receiving ~100PPH more fuel than was required to operate.

MEET GE'S EXPERTS



Jeff Ottow

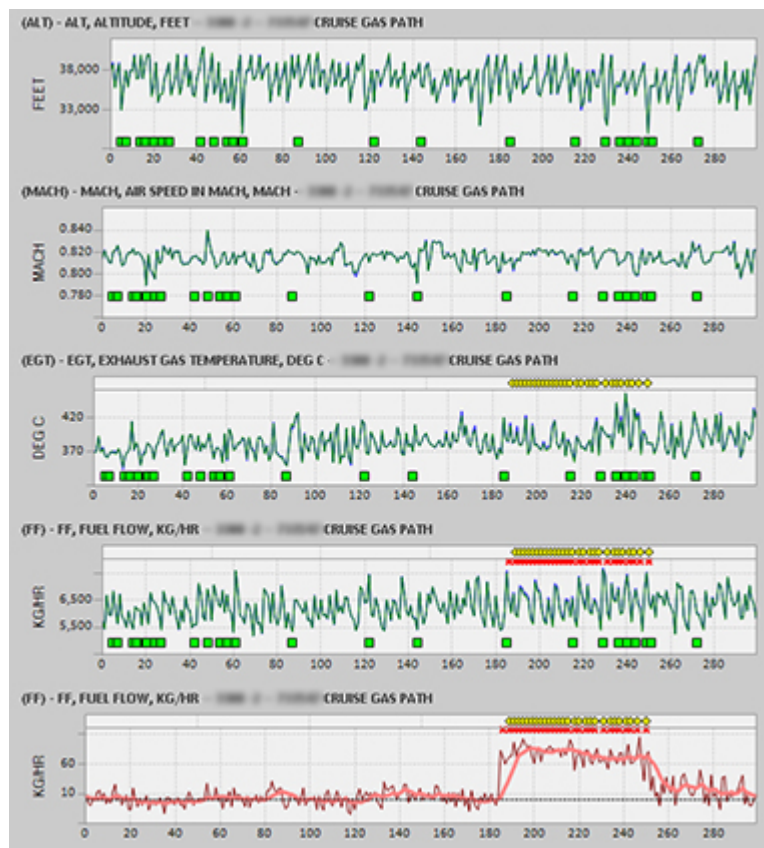
Customer Reliability Engineer



Casey Walleck

Customer Reliability Engineer

WHAT THEY SAW



The screenshot shows a small deviation in the actual and estimate on FF, but when the residual is pulled up, the shift becomes more apparent. The readings returned to normal after the faulty EEC was replaced.

GE's Industrial Performance & Reliability Center, using Proficy SmartSignal software, provides comprehensive predictive monitoring across all critical rotating and non-rotating equipment plus key balance-of-plant equipment. The Catch of the Week highlights some of the critical catches detected every day.

Real customers, real stories.

What if you have small, undetected issues that might lead to big problems? We can help you find out.

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