

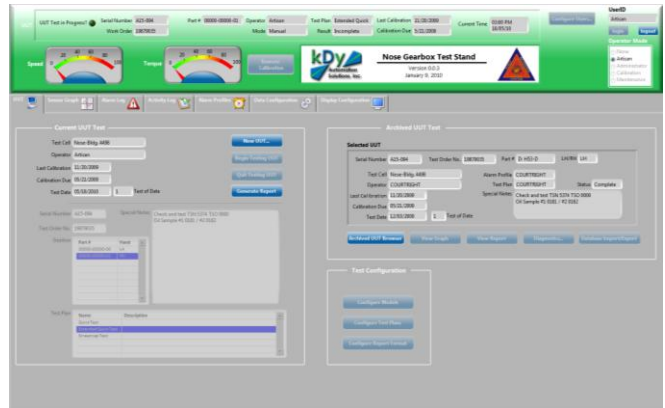
H-53 Nose Gearbox Test Stand

- Robust, intuitive user interface
- Complete safety and vibration monitoring of test stand system
- Customizable recipe-driven test sequences
- Incorporated automated calibration system and software, which cut calibration time by over 30%
- Government-compliant documentation with minimal client oversight



Overview

The U.S. Marine Corps' Fleet Readiness Center contracted KDY to overhaul the control system and interface for their H-53 helicopter gearbox test facility. KDY's solution resulted in a more robust and user-friendly testing interface while providing more powerful data viewing and monitoring functions, as well as a state-of-the-art vibration monitoring system.



The Test Dashboard

Because the system would be used by engineers as well as test stand operators, KDY developed a highly functional user interface that allows gearbox testing, software configuration, system diagnosis, and test stand calibration.

Calibration System

The test stand system relies on over half a dozen different types of sensors for monitoring conditions of the gearbox under test and of the testing equipment. These sensors require accurate calibration periodically, a process which used to take trained personnel anywhere from three to four days to complete. KDY's calibration system automates configuration of calibration instruments and transparently communicates with the test stand, simplifying the calibration process to the extent that it can be completed in just two days.