

Aging Wiring Survey

Electrical Wiring Aging and Integrity Inspection



During the life cycle of an aircraft the electrical wiring ages. "Aging" refers to the wiring insulation condition, not the conductor, and relates to the various conditions the wiring is exposed to, such as vibrations, mechanical stress, moisture, temperature variations and exposure to chemicals rather than its age in years. Additional, human related factors are installation and maintenance, including modifications, fault isolation and repair.

As the fleets of commercial and military aircrafts get older, so do the hundreds of miles of electrical wiring harnesses responsible for critical systems such as power and communications in each aircraft.

Following the Aging Transport Systems Rulemaking Advisory Committee (ATSRAC) final report, the approach to wiring maintenance is shifting to proactive mode. Wiring and Electrical Wire Interconnect Systems (EWIS), are no longer considered as

"Fit and Forget". A routine visual inspection, with implementation of corrective actions, can reduce chafing risks, save maintenance cost and reduce down time.

Our new **Wiring Survey Service** goal, is to develop a dedicated routine wiring integrity inspection manual, based on a wiring integrity and reliability study, which includes: complete aircraft wiring visual inspection, previous wiring issues/incidents, TCTO's/Mod's, Technical Manuals and wiring reliability analysis, depending on wiring fault maintenance history. The wiring survey can also lead to TCTO, ECP or ITCTO as a correction action.

To do this, Y.P Unitesters provides a team of electrical wiring experts with experience on fighters, helicopters and cargo aircrafts, such as: F-16, CH-53 and C-130. Our team accomplished wiring survey and supported full wiring improvement project on F-16, block 10 to block 40, and C-130, E and H, for the Israeli Air-Force.



Because you need to be sure.

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