L3HARRIS®
FAST. FORWARD.

MACHINERY CONTROL SYSTEMS

Developing customizable, hardware-agnostic Machinery Control Systems (MCS) solutions for the U.S. Navy, ensuring adaptability and lifecycle support

MISSION NEED

U.S. Navy requires cutting-edge MCS to enable control, monitoring, real-time troubleshooting and condition-based maintenance of advance power and propulsion systems.

Today's warships have comprehensive platform automation capabilities that allow them to achieve unprecedented levels of ship survivability and operational effectiveness. Integrating these capabilities at the platform level can optimize operational effectiveness and contribute to crew reductions. New hybrid propulsion and power generation systems are being designed to evolve with changing platform mission sets and adapt to future technologies. These systems require advanced control systems that evolve with operational needs, optimize effectiveness, and reduce manning requirements — while

remaining affordable enough to sustain MCS operations and capability upgrades throughout the platform's life cycle.

SOLUTION

As an industry leader in MCS development, L3Harris works tirelessly from concept and requirements development, through M&S and prototyping, to testing and final implementation, to create unique MCS solutions based on power, propulsion and mission needs. These solutions are hardware agnostic, allowing the customer to select desired suppliers or to work with L3Harris' trusted partners to tailor a solution that aligns to customer requirements, budget and schedule. Adding cutting-edge technologies — including AI-enabled intelligent load-shed and integrated condition-based maintenance, into a life-cycle supportable system — provides a capability that can easily adapt along with the evolving platform.
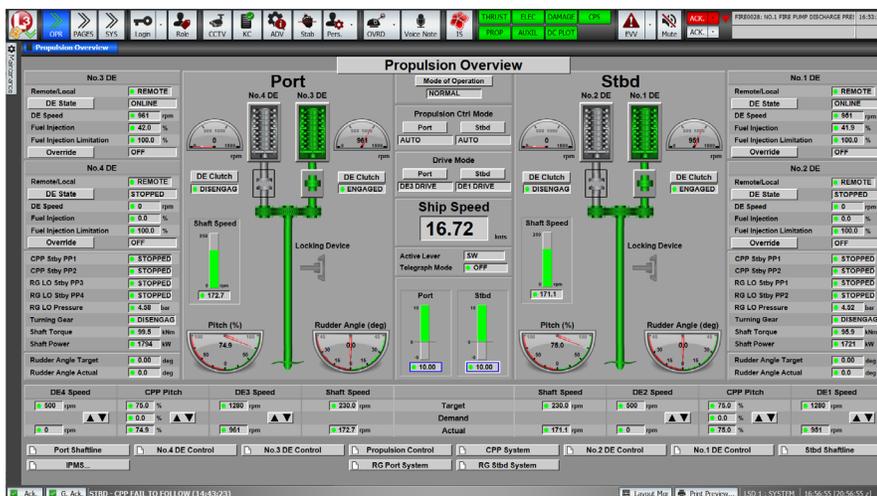
BENEFITS

> Over 25 years of power, propulsion control and integration pedigree

> Capability Maturity Model Integrated Level 3 since 2003 — recently re-certified in 2025

> Systems integration lab with 10,000+ signal simulation and stimulation capability enables rapid test and evaluation of new systems — available now

> AI-enabled intelligent load shedding in development

> Integrated condition-based maintenance

> Low non-recurring engineering cost due to reuse

> Detailed requirements development expertise

> Non-proprietary hardware/software integration

PLATFORM PEDIGREE

> San Antonio Class LPD 17

> Independence Class LCS 2

> Ship-to-Shore Connector (SSC)

> Missile Range Implementation Ship T-AGM

> Constellation Class FFG 62

> Explorer Class T-AGOS

EPSI Scope

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Machinery Control System (MCS)

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L3Harris is the Trusted Disruptor in defense tech. With customers' mission-critical needs always in mind, our employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains in the interest of national security. Visit L3Harris.com for more information.