

EARL INTEGRATED POWER & CONTROLS



When Earl Industries acquired Beach Panel & Controls (BP&C) in December 2008, Earl's ability to support the next generation of naval warships was greatly enhanced. Now called Earl Integrated Power & Controls (Earl IPC), the new operating division adds 15 years of shipboard electrical power and control systems experience to the Earl portfolio. We continue our track record of solid growth and success as a leading control system designer and integrator. We continue to rely on sound engineering and design principles, innovative concepts and advanced technologies to assist our customers in both the naval marine and industrial markets.

As an Original Equipment Manufacturer (OEM), Earl Integrated Power & Controls is a leader in electrical control panels, switchboards, power distribution, and full-scale automation systems. Our staff of engineers and technicians works closely with the regulatory bodies to meet their guidelines, resulting in a successful commissioning every time.

Whether it is new construction or modernization, equipment design or custom packaging of commercial off-the-shelf (COTS) components, marine or industrial – Earl IPC can engineer and deliver a cost-effective solution.

Contact Earl Integrated Power & Controls to discuss how we can meet your specific requirements. You will experience our commitment to quality and service first hand.

Capabilities and Turnkey Solutions

- + Machinery Control & Monitoring Systems
- + Propulsion Controls
- + Power Distribution & Bus Transfer
- + Renewable Energy Management Systems
- + Video Surveillance, Security & CCTV
- + Networking Components and Systems
- + HMI Displays & PLC Controls
- + Switchboards & Motor Control Centers
- + Shipboard Consoles
- + Operator Interface Panels
- + Variable Speed Drives
- + Bulkhead Mounted Displays
- + Uninterruptible Power Systems



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CAPABILITIES

MilCOTS

Today's commercial off-the-shelf (COTS) products are playing a critical role in helping the military stay in line with technology while holding the line on costs. Though COTS products are designed for harsh industrial environments, meeting the military's rigid requirements for these products is another matter. The Engineering Team at Earl Integrated Power & Controls has successfully designed, built and qualified equipment under the following Mil Standards: MIL-STD-901D, MIL-STD-461E, MIL-STD-167-1, MIL-STD-1399, MIL-STD-810F, MIL-PRF-32168 and MIL-STD-108E.

SWITCHBOARD & POWER DISTRIBUTION

Our professional staff will design, build and install marine switchgear to operate with low, medium, or high voltage providing protection, monitoring, control, and precise instrumentation. Whether fabricating a solution from concept and design or retrofitting an existing unit, our expertise is unmatched in the industry.

AUTOMATION, CONTROLS AND MONITORING SYSTEMS

We have expertise in design, fabrication, and installation of automation, controls, and monitoring systems. Our staff of engineers and technicians can also provide upgrades and repairs to the existing systems. With our one-touch control systems, we can integrate every aspect of a ship's operation without increasing manpower. We can design an affordable, scaleable, completely integrated system for vessel operation that is fully compliant with the ABS and USCG requirements.

INSTALLATION

Our staff travels worldwide replacing, retrofitting and maintaining a variety of electrical control and automation equipment for both the government and private sector. We have certifications for High Voltage Safety and Electrical Power Systems as well as Marine Electrical Propulsion Design and Operation.

PANEL SHOP & FABRICATION

We have a large manufacturing facility used for fabrication, assembly, testing and commissioning of large-scale projects. From prototypes to entire ship sets, our UL-508A Panel Shop designs, builds and tests solutions that consistently exceed customer expectations.

SHIP SECURITY SYSTEMS

Earl IPC has the capabilities to design, fabricate, and install intelligent systems which enhance Vessel or Plant Security Plans. Our cost-effective approach provides state-of-the-art technology while at the same time reducing manpower requirements.

CRANES AND DECK EQUIPMENT

Our engineers and technicians are experienced in numerous types of automated, electrical, pneumatic, and hydraulic cranes and winches. Our crane automation systems can provide protection, safety, monitoring of load capacities and user friendly controls for both government and commercial industries.

SERVICES OFFERED

DESIGN

- + High Temperature Analysis
- + EMI Shielding, Gasketing & Filtering
- + Shock and Vibration Design and Analysis
- + 3D Modeling
- + Finite Element Analysis
- + Preliminary and Critical Design Reviews
- + Retrofit Applications

BUILD

- + Prototypes
- + Entire Shipsets
- + Custom Enclosures

QUALIFICATION TESTING

- + MIL-STD-461E Electro-magnetic Compliance
- + MIL-STD-901D High impact
- + MIL-STD-167-1 Shipboard Vibration
- + MIL-STD-801F High Temperature and Humidity
- + MIL-STD-1399 Shipboard Power
- + MIL-STD-108E Degree of Protection

DOCUMENTATION

- + ABS & USCG Approved Test Procedures and Drawing Packages
- + FMEA
- + Factory Acceptance Testing
- + Assembly and Installation Drawings
- + Tech Manuals
- + White Papers
- + Navy Approval Letters

