

Emergency Shutdown Systems

Autopro offers audit, design and implementation services for emergency shutdown systems, to ensure our industrial clients are in full, documented compliance with all government regulatory requirements and best standard operating practices.

The Challenge

Emergency shutdown (ESD) systems are designed to safely stop the operation of a process and isolate it, in order to minimize the risk of potentially hazardous situations.

These systems and procedures are critical elements of any process control system, to ensure the safety of people, the facility, and the environment.

Facility management must ensure that site documentation is current and accurate, documented processes are in place, personnel are trained in proper emergency response procedures, and also that sufficient available back-up power is in place to ensure the shutdown can be carried out safely in any situation.

The Solution

Autopro offers a complete audit, design and implementation services for emergency shutdown systems and standby power, to ensure our clients' facilities are in compliance with government regulations and that they meet corporate health, safety and environmental standards.

Our solution follows a detailed, three-phased approach to ensure safe and reliable shutdowns and minimize risk.

Phase 1 - ESD Review

Autopro's experienced team reviews existing facility designs and power systems to:

- Identify what equipment and processes are in place, and what needs to be shut down in the event of an emergency situation
- Determine what amount of power is required and being provided, and from what source
- Quantify and document any gaps between the required power and what the existing back-up power systems are able to provide

This can be done using client-provided electrical drawings and P&IDs if they are available and up to date. Autopro can also conduct on-site reviews to confirm the accuracy of the provided documentation, and update or create as-built drawings where needed.

Phase 2 - Design

Once the audit is complete, Autopro's engineering team develops a detailed plan and electrical design to address any gaps identified in order to bring the system(s) into full regulatory compliance.

Phase 3 - Implementation

After the plans are reviewed and approved by the client, Autopro implements the changes. This could include power redistribution as well as installing new power systems to meet requirements.

A complete set of updated drawings and documentation is produced as part of the implementation phase.

Autopro applies stringent project management processes and practices to each project we undertake to ensure the projects meet all regulatory code regulations and client defined success criteria.

Expertise

Autopro Automation Consultants Ltd. is a leading engineering design and integration firm that specializes in industrial automation. From offices located in Calgary, Grande Prairie, Vancouver, Edmonton, and Fort McMurray, Autopro provides our customer base with the most cost effective and responsive project and support services possible.

Since our founding in 1990, Autopro has completed thousands of projects ranging from small capital improvement projects to multi-year large technology retrofits and facility start-ups.

Autopro offers a full scope of project life cycle services within industrial automation from feasibility through detailed engineering and commissioning to ongoing site technical support. Autopro's core business focus is centered on the delivery of high quality electrical, instrumentation, process information and automation services to our valued customers.

More Information

For more information on this and our other services, please contact us:

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