

## Description

At i9s we audit the **current state of your machine's electrical equipment** (control cabinet and electrical wiring) in order to determine which elements are obsolete, with low safety or operational reliability, etc. and we offer a new electrical design updated to the standards, such as: updated safety functions with the calculated safety levels, all this with or without safety PLC. In addition, the electrical equipment will conform to the Electromagnetic Compatibility Directive.

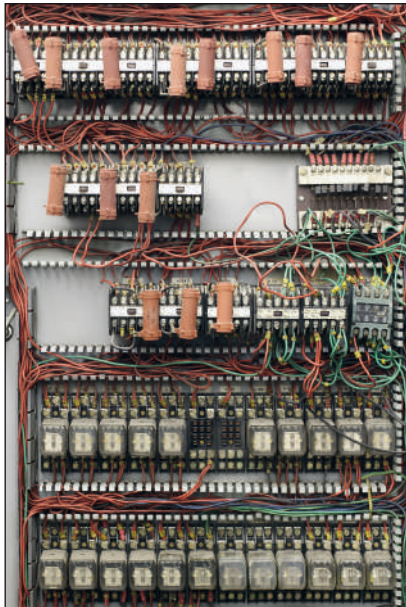
## Specifications

The updates are based on the following standards:

- **EN 60204-1** *Safety of machinery. Electrical equipment of machines. Part 1: General requirements.*
- **EN ISO 13849-1** *Safety of machinery. Safety-related parts of control systems. Part 1: General principles for design.*
- **IEC/EN 62061** *Safety of machinery: Functional safety of electrical, electronic and programmable electronic control systems.*

## Examples

Examples are shown below:



Obsolete relay cabinet



Obsolete frequency shifter cabinet



Obsolete control desk

## Scope of the service

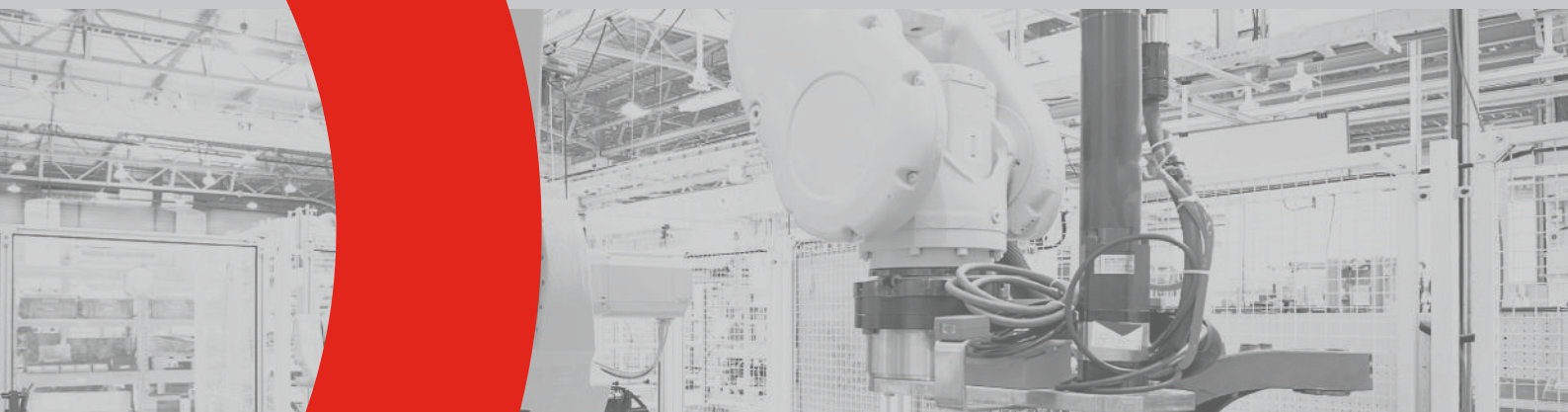
Electrical equipment updates can comprise the following sections:

- 1- Inspection of the electrical equipment and preparation of the Non-Conformity files so that they can be updated by any party.
- 2- Electric engineering + pneumatic engineering + update of the Non-Conformities by i9s.

## Documentation

The following is delivered with each adjustment:

- Electrical engineering in PDF format.
  - A list of possible Non-Conformities found.
- (In Spanish. Other languages on demand.)



## **i9s, S.A.**

Calle Béjar 91, 1º, 1ª.  
(08014) | Barcelona | (Spain)

(+34) 93.113.26.05  
[i9s@i9s.es](mailto:i9s@i9s.es)  
[www.i9s.es](http://www.i9s.es)