

OSART Good Practices

OPERATIONS

Control of plant configuration

Clinton, USA

Mission Date; 11-28 Aug., 2014

Equipment Configuration Control

Operations management has improved equipment configuration control by reducing inadvertent bumping and improper operation of susceptible plant equipment and incorporating configuration control defenses throughout the planning and execution process. This effort included the introduction of several physical and administrative barriers and also human behavior related improvements.

Examples include:

- 60 cm (two-foot) wide zone areas were painted around sensitive equipment. Susceptible valves, breakers, and hand switches were also fitted with removable and permanent covers that prevent unintended manipulation. Of particular note is the use of station fabricated guards to prevent inadvertent operation of rotary handled breakers.



- Operations meetings and pre-job briefing checklists contain line items to discuss how equipment configuration control will be maintained (flagging, robust barriers, awareness of surroundings). Component misposition prevention has been included on the two-minute drill card to encourage all levels of staff to identify potential issues and implement preventive or mitigating actions. Site personnel keep the card on their security badge lanyard.
- Procedures and Work Order instructions are reviewed to ensure that component restoration steps are included for any manipulated components. Components not restored are tracked with open narrative log entries and equipment status tags to maintain equipment configuration control.

A robust Equipment Configuration Control Programme prevents the misalignment of components and placement of a device and system in a configuration other than that intended by drawings, procedures, clearances, or other similar authorizing documents.

As a consequence of the introduced measures CPS reached a significant reduction in the number of equipment configuration control events since 2006. The last event occurred over nine months ago and was a result of an inadvertent deluge of Turbine Driven Reactor Feed Pump TDRFP "B" during the performance of functional testing.

Dampierre, France

Mission Date; 31 Aug.-17 Sep., 2015

Installation of a metal jig on the normally open valves of the motor-driven auxiliary feedwater pumps

The Plant has installed a metal jig on the normally open valves of the motor-driven auxiliary feedwater pumps. Once in place, this jig guarantees that the valve is open.

As a result of fleet-wide Operating Experience (weakness identified in this area at another French plant), the Plant designed these devices for safety lockouts.



This tool can be readily utilized and manufactured by site maintenance.

This tool may also be utilized by field operators during isolation and tagging activities.

The tool is clearly visible and allows the operator to readily identify gaps in the application of this jig. Use of this jig complements the safety lockout without overcomplicating it.

The valve safety position as open is physically guaranteed, preventing damage to the pump. It also eliminates human error as regards valve position.