



DIGITAL PROCEDURES FOR INDUSTRY

EPSC – DIGITALIZATION WORKGROUP

Digital Operations Center Wiesbaden

June 2020

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■ Story

Daily tasks Workers are performing in the field are a layer of protection for safety of our industrial facilities.

Regulators like OSHA requires employer to develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in chemical processes.

Goal of a execution of a procedure is the correct execution of:

- Task (What)
- Location (Where)
- Correct sequence (When)

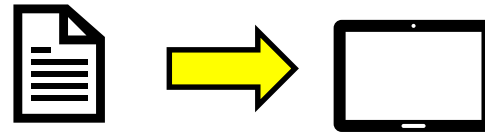
Yet, a statistical study (Zhang and Zheng, 2012) concluded that within 1632 hazardous chemical accidents occurring in China between 2006 and 2010, majority of accident immediate causes were categorized as being due to human factors followed by equipment deficiency.

Piper Alpha Incident (1988, Aberdeen (UK)) where among other causes, inadequate transfer of information between crew and shifts was a contributive factor.

■ Solution

Process Safety may take advantage of new digital and integrated system opportunities available in order to:

- Minimize human errors.
- Feedback operations about live data at the field.



- Paperless Operation
Digital operation will allow workflow of information to be faster and more reliable
- Integrate workflows
Integration of all procedure execution involved parties
- Less verbal communication
Reduce the need of verbal communication between Control Room and Field Operators
- Reduce manual entry of data
Allowing Field Worker enter data from the mobile interface.
- Do the right task in the right context
Scan RFID/QR codes in order to identify field devices, even manual valves.
- Take advantage of new Mobility solutions.
Industrial rugged Tablets available in the market with ATEX certifications



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