

**HIGH VALUE LEARNING****High Value Learning****Facility emergency response capability unexpectedly impacted by power outage****Who could be interested in this?**

Oil and gas production facility operations, particularly:

- engineering team leaders, asset and site managers
- electrical engineering and telecommunications engineering support and team leaders
- asset / site H&S advisors

**What is this all about?**

A power outage occurred after maintenance activities on a safety instrumented system on an offshore oil & gas production facility that inadvertently initiated the highest-level emergency shutdown on the installation. The outage unexpectedly impacted a number of the facilities emergency response systems.

**Some things to consider?**

Consider, does the facility have:

- A functioning and properly maintained evacuation route emergency lighting system which is designed to operate during a loss of normal power and is resilient to executive actions (ESD or abandon platform shutdowns) to loss of containment events during emergency response;
- A functioning and properly maintained internal emergency communication system (e.g. by Public Address (PA) system) that operates during a loss of normal power and is resilient to executive actions (ESD or abandon platform shutdowns) to loss of containment events during emergency response;
- An emergency response plan which addresses the scenario of an unplanned complete loss of power and where operations personnel are trained to execute the plan;
- Written procedures that are practiced by operating personnel for safe re-start following an unplanned loss of normal and emergency power;
- Installed operations critical telecommunications (OCT) equipment which has been reviewed by a competent OCT engineering professional to confirm equipment and systems are fit for purpose for emergency support in accordance with international standards such as SOLAS;
- OCT equipment which is available and functioning on the facility in case of loss of both primary and emergency power;
- Inspection and testing plans of OCT and associated backup power equipment, including batteries and charging systems at facility which have been reviewed and confirmed against OEM maintenance requirements and recommendations.

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