

OIL INDUSTRY SAFETY DIRECTORATE  
NOIDA

S A F E T Y A L E R T

E&P (Offshore)

No. 14/03

Title:                   **Fatality due to electrocution**

Location:               **Production Platform**

Activity Type

(Result/outcome):   **Fatality**

**What happened:**

An engineer working for the project contractor of offshore process platform revamping job was found unconscious while working on 'Oxygen Analyser'. Victim was provided CPR but he did not respond to CPR. He was shifted to hospital at the base, where he was declared dead.

**What caused it:**

- Pre-commissioning / commissioning of various systems / equipment were in progress simultaneously. The job related to 'Oxygen Analyser', which was not planned in advance, was taken up during pre-commissioning. Job safety analysis was not done.
- As per the technical data sheet, power supply to the Oxygen Analyser should be 6.5-13.5 Volts DC (the same was displayed on the sticker fixed at the panel also) through safety barrier. On checking during incident investigation, it was found that power supply to the panel was 230V AC.
- The victim was onboard the offshore installation continuously for 55 days. This long stay might have resulted in inadequate rest and restitution for the victim, thereby affecting his alertness.

**Corrective actions:**

- Before carrying out any job on electrical / instrumentation panel, supply voltage should be measured and necessary precautions be taken.
- Compliance with the installation requirements (safety barrier in the present case) should be verified by the competent personnel.
- High risk jobs, like working on electrical system, should be done under supervision, so that required actions related to safety are not inadvertently missed/overlooked.
- Period of stay at offshore for contractor's employees working in projects should be optimized to avoid lack of alertness due to inadequate rest and restitution.

It is provided for information purpose. This information should be evaluated to determine if it is applicable in your operations, to avoid reoccurrence of such incidents.