

## SAFETY ALERT - Electrical works

### Contractor No treatment incident Norway / Near Miss Germany

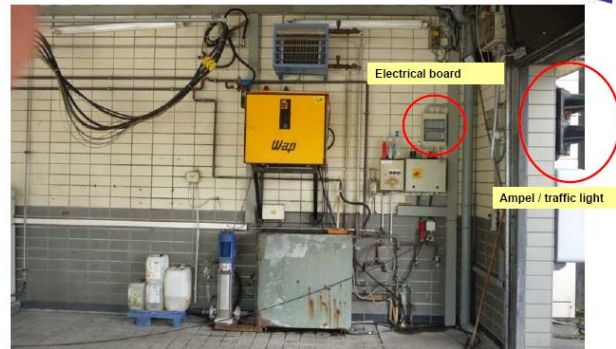
Date: March 2010

#### WHAT HAPPENED?

NORWAY	GERMANY
<ul style="list-style-type: none"> <li>TASK: Change a lamp in floodlight on the forecourt.</li> <li>Technician performed LOTO at the board based on the existing labeling in the board</li> <li>He checked for voltage at the lamp - no indication of power.</li> <li>After changing the lamp, he re-installed the reflector and then received an electric shock. He was not wearing gloves. He had removed them to have better grip on the lamp and the reflector</li> <li>He went to the hospital for check up as required by local legislation</li> <li>No Treatment received</li> </ul>	<ul style="list-style-type: none"> <li>TASK: Decommission a Car Wash.</li> <li>LOTO power at board by removing the fuses, could not use lock</li> <li>Tested meter on live source to verify OK, and then used it on several sections of car wash and confirmed no power</li> <li>Operator cut through a live cable on traffic light unit, located outside the carwash, using insulated cutters</li> <li>He did not receive a shock, just heard a noise.</li> <li>No injury to person</li> </ul>

#### WHY DID IT HAPPEN?

<ul style="list-style-type: none"> <li>RC 5 : Inaccurate procedures – Technician did not test his meter before (and after) applying LOTO</li> <li>RC2 : Technician did not positively identify the circuit he had to lock out, took a shortcut instead trusting what was indicated in the switch board</li> <li>RC7: Faulty equipment : 1) the test meter was faulty, 2) the contactor of voltaic cell was defective and did not interrupt the phase 3) improper installation - wiring of the voltaic cell inside the lamp was exposed</li> </ul>	<ul style="list-style-type: none"> <li>TC 4: Routine behavior – the operator did not test this specific cable prior to cutting - he assumed that it was supplied by the switchboard inside the carwash and assumed it was free of current as was the interior part of the installation</li> </ul>
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#### WHAT COULD HAVE PREVENTED THESE INCIDENTS / LESSONS LEARNED:

- Apply correct Lock Out / Tag Out procedure, i.e.
  - Positively identify the circuit that one will be working on
  - Apply correct Lock Out test method, including test of the measuring device on a live circuit before and after the verifying the Lock Out applied
- Conduct LMRA continuously, at each job stage

**The Last Minute Risk Assessment is a continuous process  
because.....Every Minute can be your last one ....**

Date of issue 31-3-10

