QHSE

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Review of Third Party Sub-Contractor

Catastrophic Incident

At Kattamia OFS Base

On 24th December 2003

What Happened?

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At 02:05hours of 24th December 2003, third party contractor's cutting disc being utilized by the its sub-contractor employee broke into five pieces while operational. One of these, lodged itself in the lower throat region of the employee, inflicting a deep cut that resulted in massive loss of blood. Employee was rushed to the third party's approved hospital, but due to the severe nature of the cut – the case was immediately referred to the Kasr El Einy hospital. Victim was later pronounced dead at 04:20hours of the same day inKasr El Einy.

Immediate Actions Taken?

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- **24/12/03 02:10** Contractor supervisor contacted the public ambulance through slb reception.
- **24/12/03 02:15** Victim was taken to the street in search of alternative transportation while waiting on the earlier called ambulance.
- **24/12/03 02:23** Public ambulance arrived and conveyed the victim to the nearest available hospital. At this point, receptionist at Kattamia OFS base contacted slb shop services coordinator notifying him of the incident and he immediately departed his home to the contractor's hospital.
- **24/12/03 02:35** Public ambulance arrived the contractor's nearest hospital, due to their inability to handle the case, the victim was then moved to a better equipped hospital for cases of this nature, Kasr El Einy.
- **24/12/03 02:50** Ambulance Kasr El Einy.
- **24/12/03 04:20** Victim pronounced dead by the medical team. Shop service coordinator contacted Kattamia QHSE officer, who in turn, contacted others including EEG QHSE and OFS manager.

Incident Investigation

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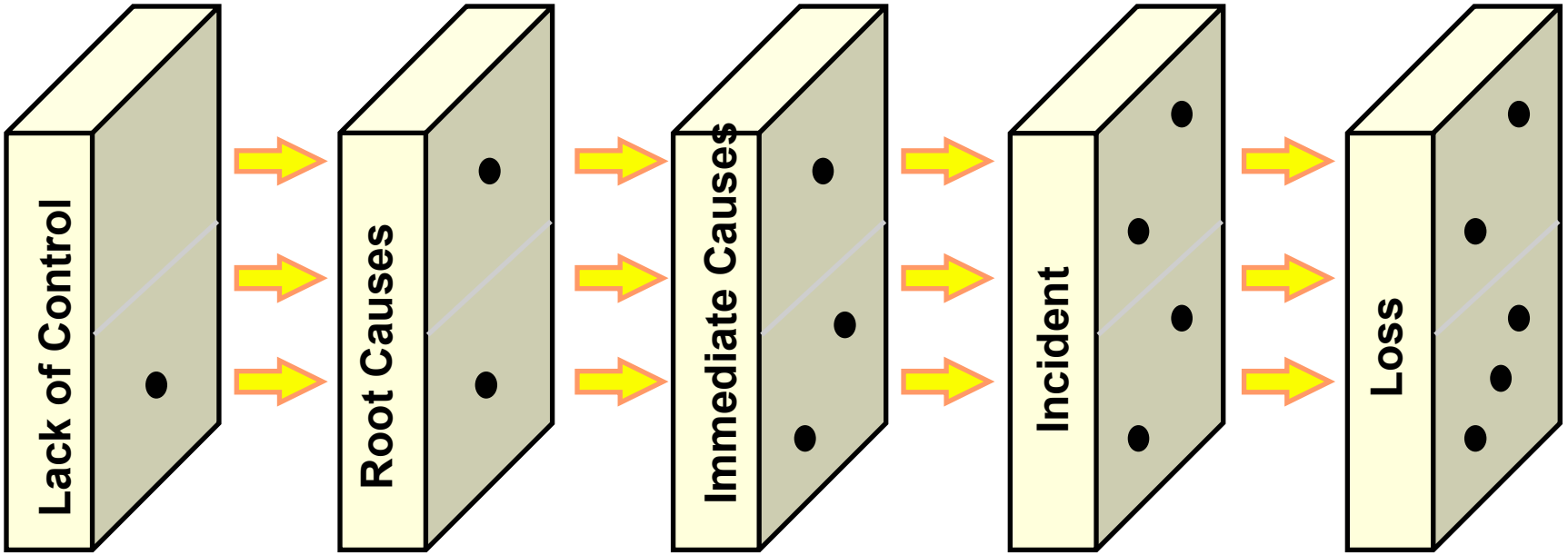
The Incident was investigated and analysed using the Loss Causation Model Technique (Dominos Effect).



All Investigations can be successfully carried out with this Domino Cause Effect System

Schlumberger

Sequence / Facts of Incident:

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- PTW initially issued on the 15th of December 2003, was renewed daily basis including 23rd of December 2003.
- Regular work review was held between Kattamia Base foreman, and third party contractor supervisor.
- Kattamia Base Foreman departs to conduct other business related to explosives, delegating possible electrical jobs to Base electrician.
- Initial digging operations started at 15:30hrs at the wire-line section of the complex.
- First encountered re-enforcement steel rods at approx. 18:00hrs.
- Suggested use of the cutting disc by the third party supervisor was discouraged by Slb wire-line foreman – whom in turn provided welding touch for the cutting operations.

Sequence / Facts Related of Incident – cont'd:

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- Note that a total of 15 contractor's employee was planned for the operations.
- At 19:30hrs, more re-enforced steel rods were encountered with third party contractor immediately requesting for a cutting wheel from it's store.
- Cutting wheel was delivered to Kattamia base at about 20:00 hrs of 23rd December **without approval from any Slb rep.**
- Cutting wheel was initially utilized by supervisor, then handed over to the victim.
- Accident occurred at 02:05hrs of 24th of December, 2003.

Immediate Causes:

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- Equipment involved in the accident was not formally approved.
- Protective guard on equipment was missing.
- Equipment was defective on close examination.
- Cutting disc has been used on several occasions, without proper record on the life time or usage period of the disc.
- Inadequate lightings in the area of operations.
- Victim must has been up for more than 15hrs.
- No defined control management for sub-contractor.

Basic Causes:

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- Lack of Knowledge (inadequate orientation & Training)
- Lack of skills
- Fatigue
- Inadequate leadership / supervision
- Inadequate equipment
- Inadequate work standards
- Inadequate maintenance / Wear & Tear of equipment.
- Definition organisational standards to third party contractor.
- Conflicting goals

Lack of Controls:

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Based on the QHSE-MS implemented in OFS the following are the deficiencies in the system elements:

- Commitment & Leadership
- Organisation & Resources
- Contractor Management
- Risk Management
- Design & Planning

Recommended Actions:

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- ✓ Immediate introduction of exemption for night work.
- ✓ Review & define supervisory roles for Kattamia base / sub-sequent contracting job.
- ✓ Review and implement handover process in Kattamia OFS base.
- ✓ Provide needed safety training for third party contractors assigned to Slb projects.
- ✓ Re-assess PTW procedure in the complex
- ✓ JSA for all non-routine jobs.
- ✓ Conduct & Review Med-Evac. process in Kattamia
- ✓ Complete review of complex risk management processes/systems.
- ✓ Tighter control of incoming items into Kattamia complex.
- ✓ Review of all ERP with employees / Placement of ERP posters in the complex.