

28th DOIRC Meeting

May 11th , 2011

Notable incidents

Sheraton Hotel



■ - BASF Group

Axel Barensee

Wintershall Holding GmbH – Qatar Branch

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Damages and first aid case during Lifting

Incident: 25-2010
Classification: Property damage & First aid case
Date: 07-Nov-2010
Location: Standby vessel



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Damages and first aid case during Lifting



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Damages and first aid case during Lifting

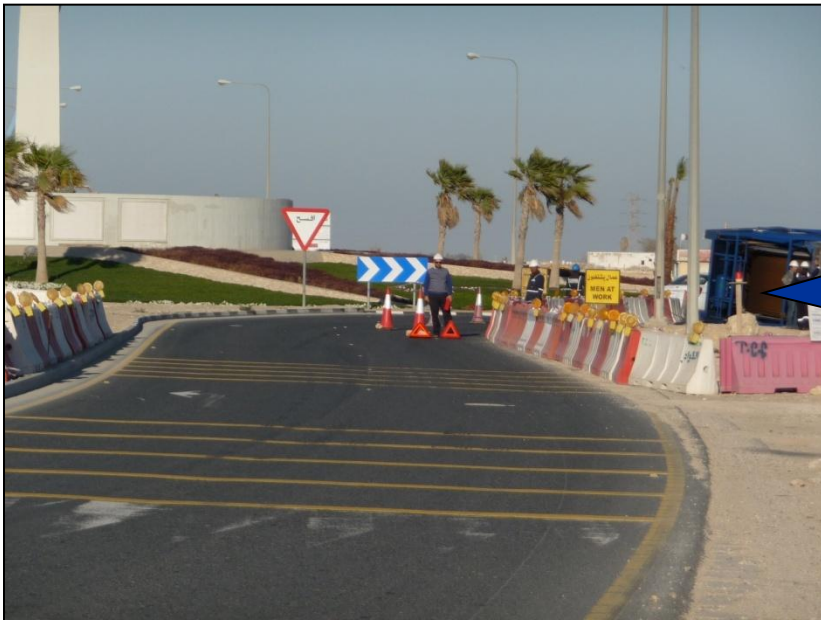


- Injury: - Wrist injury while trying to manually lift the raft clear of the handrail.
- Potential: - Lost Time Incident
- Root Causes: - Inadequate planning of the activity,
- No adequate risk assessment of the activity,
- Tagline only connected to the centre of load, unable to control movements
- Lesson learned: - Always ask if the planned set up for a job is the best possible choice. Consider alternatives. Take JSA serious.
- If execution develops into hazardous situations, STOP !

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Insufficient load securing

Incident: 06-2011
Classification: Property Damage
Date: 19-Feb-2011
Location: Fish roundabout, close to Ras Laffan
Weight of reel: Approx 21 t



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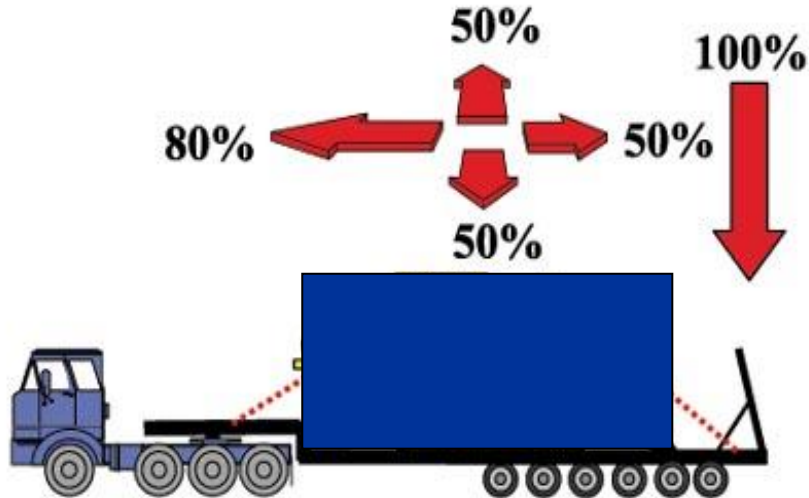
Insufficient load securing



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Insufficient load securing

Forces to be considered:



$$F_v = \frac{a - \mu}{\mu} \times F_G$$

$$F_v = \frac{a - \mu}{\mu \times \sin \alpha} \times F_G$$

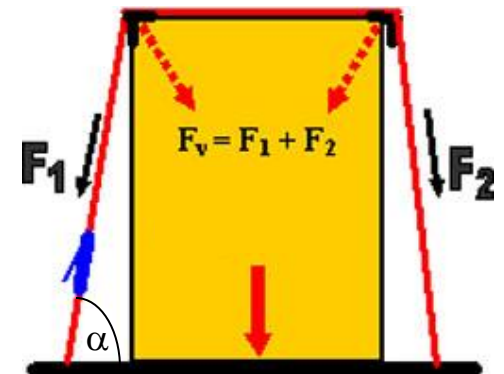
a: Acceleration factor = 0.8 or 0.5

μ : Friction factor

F_G : Force of gravity of the load

F_v : Needed force to secure

If α less than 83°



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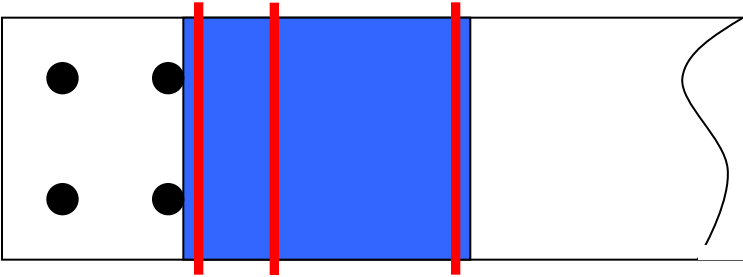
Insufficient load securing



• BASF Group

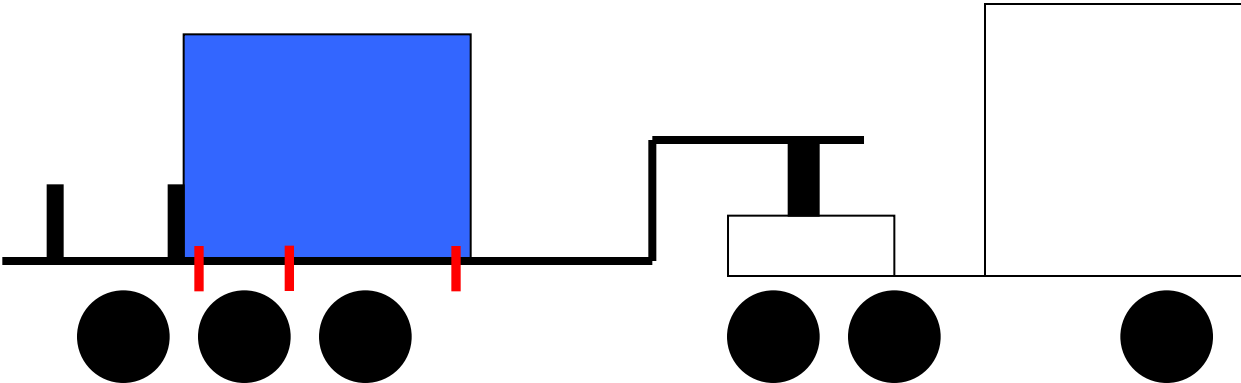
Not to scale !

View from above:

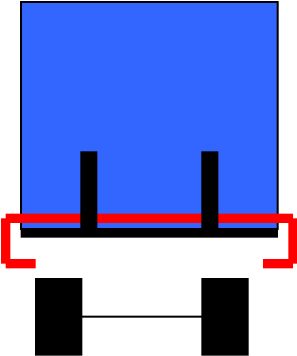


Red: chains
Blue: Reel frame

View from side:



View from rear:



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Insufficient load securing

Damage: - Substantial damage to the reel

Potential: - Serious injuries / Fatalities

Root causes: - Lack of understanding of involved forces
- Inadequate procedures and controls for load securing

Lesson learned: - A load on a trailer is never secured by its own weight !
- Set up a system which ensures that load securing is done adequate and in a correct manner