

Initial issuance       Final Issuance

<b>Title:</b>	Snapped wire cable of piling rig	<b>Synergi Case N°.</b>	417795
<b>Region/ Project:</b>	Region A – PPF6 New Finishing	<b>Incident Date:</b>	19/10/2015
<b>HSE Alert Category:</b> <i>(Synergi Incident Categorisation)</i>	Equipment (SIF Near Miss)	<b>Alert Issue Date:</b>	22/10/2015

## 1.0 DESCRIPTION OF THE INCIDENT

As per piling campaign at site with the piling rig (type Hitachi KH 230-3), the team had to change the pile for a smaller diameter to carry on piling activities on the area 100.

They proceed with the removal of the pile of 600 diameter without any issue. They continue by placing the new pile of 450 diameter to perform drilling at predefined spots, the wire cable which was used to pull down the pile to the ground snapped.

## 2.0 SUMMARY OF FINDINGS & PICTURES

The piling machine was modified to be able to drill piles instead of driving piles (hammer).

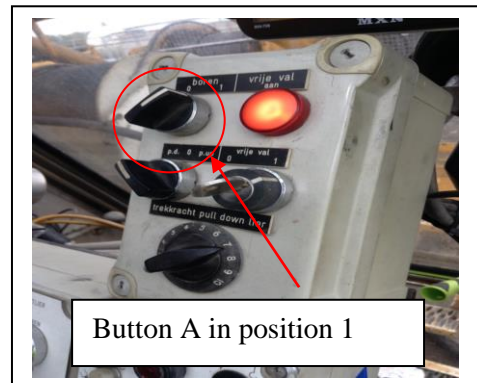
The switch control panel was set up to allow the pile drilling function. The piling rig had his current third party certificate.

While operating the command to drill piles, the operator has to switch the button A in position 1. When the button A is in position 1, the operator can control by using the levers and the switches below for raising the drilling motor platform, pulling down the pile... The operator did not turn the switch completely to 1 as he was focusing on several people around the machine and also getting

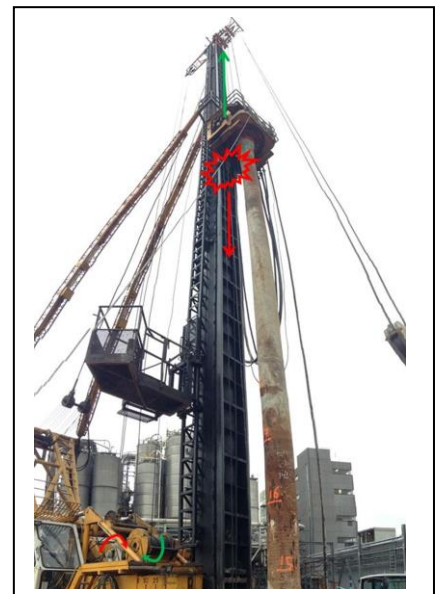
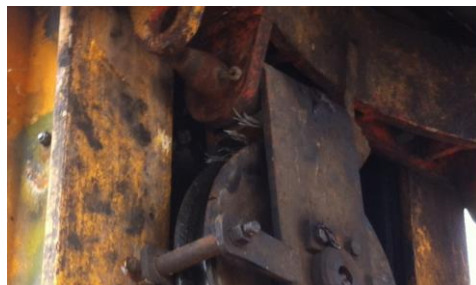
regularly distracted by two new comers in the team asking him what they have to do next.

As a consequence, the drum with the wire cable to raise the drilling motor platform was spinning as well as the drum with the wire cable to pull down the pile. The last one gets in tension until exceeding his maximal strength capacity and snapped.

No injury/damage reported (wire cable snapped).



Button A in position 1



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**Additional findings:**

- No safety device on the switch control box to avoid opposite drum spinning.
- Improper work coordination at the work location.
- Operator getting solicited by the team at site (with 2 new members) and not focusing 100% on the task.

### 3.0 IMMEDIATE ACTIONS

- Job suspended
- Review of the incident and start of the investigation process
- Repair of the damaged cable

### 4.0 RECOMMENDATIONS

- Check the possibility to install additional barrier on the switch control box to avoid simultaneous conflicting operation (pull up, pull down).
- Double check by the operator to verify after operating the switch button A in position 1 by slightly moving the levers and visually checks the wire cable drums.
- Re definition of the site coordination for piling works. One focal point nominated (other than the piling rig operator).
- Update of the Method Statement / JSA related to piling operations accordingly.
- Toolbox talk with the team to share the incident and corrective measures.

### 5.0 12 SAFETY ACTIONS

- **ALWAYS** intervene when you see an unsafe act or condition.
- **NEVER** remove safety isolation/equipment/barriers.
- **NEVER** perform tasks for which you are not trained and competent.

