

# Concrete Boom Pump Arm Failure – CIFA K39H - Carbotech

High Potential (Hi-Po) Near Miss

## The Facts

Whilst rig 7006 was manoeuvring, the rubber hoses (flex) connecting the rig to the concrete boom pump (K39H Carbotech) stretched causing a section of the boom arm of the pump to fail.

Further damage resulted in

- “ Hydraulic pipe damage
- “ Steel hose spilt

## Causes

- “ Concrete boom was at full stretch
- “ Slewing manoeuvre of rig caused flexible hose to stretch
- “ Connections between sections 3 & 4 was carbon fibre to steel

## Corrective Actions

- “ All works stopped, area made safe and exclusion zone implemented around concrete boom pump.
- “ Dynamic risk assessment carried out to pump out concrete and recover equipment
- “ All RB Areas instructed to not use concrete boom pumps with carbon fibre arms until further notice

## Further Considerations & Actions

- “ Clear communication between the Concrete Pump Operator (CPO) and the Rig Foreman must be established.
- “ CPO and Rig Foreman should discuss and agree the maximum radius that the boom will operate.
- “ Radio communication is being trialled between rig foreman and CPOs within Dumbarton project.
- “ A review is being undertaken of current procedures to develop a standardised communication process between Piling operatives and CPOs when slewing.



**SAFETY ALERT**



Think for a Second  
**Put Safety First**

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