

# Lesson Learned No-42

## LOWER HOOK BLOCK AND UPPER SHEAVE DROPPED TO GRADE FROM SIDEBOOM

### Event Description:

During a Tie in activity a lower hook block and upper sheave block (450kg) became disconnected from a raised boom on a Side Boom and fell to the ground during a small manoeuvre. Shortly after, the axial pin also fell to the ground (12kg)

The sideboom had previously been transiting along the ROW to complete multiple activities which contributed to the loss of the securing bolt and washer and subsequently the axial pin due to the prolonged period of vibration and movement.

During these maneuvers and at the time of the incident, two members of the tie in team were 3-5 metres away.

### Photo



### Possible Consequences:

Fatality

### Immediate Actions:

- Work Stopped
- Investigation team formed
- Fleet wide check of Side booms for similar issues

### Possible Reasons:

- Inadequate planned preventative maintenance undertaken
- Pre-use inspection checklist not completed
- Sideboom travelled distance along ROW – vibration contribution to pin loosening



### Lesson Learned Conclusion:

- Reinforce check by the operator - Mandatory to fulfil checklist prior to start working in the morning and after lunch break. Signature of operator required. 2 boom down inspections daily or in the event where the boom is holding a fixed load immediately before beginning next lift
- Plant departments to re-evaluate the security pin to ensure correct pins being used for the side boom model
- Plant departments to carry out monthly critical point inspections of all sidebooms
- Use of Tags on security pins to be used. Tags enable the checking of placement of pins from a distance.
- Some older sideboom models have original parts that are no longer available and instead substituted fittings are used – The need to check plant inventory that substituted parts are fit for purpose.