Catastrophic Failures – BE1370

- Comprehensive investigation into dragline catastrophic failures to establish root cause of failure
- Investigation based on all possible contributing factors
  - Operation profiles
  - Design
  - Materials
  - Maintenance (repair, modifications, shutdowns, inspections)
  - FEA and Measurement

Outcomes
- Critical lacing which had failed had been repaired several times in the past. This repaired lacing had failed during normal operations reducing structural capacity of the boom to less than half.
- Operations were unaware of criticality of the failed lacing members