

# Safety harnesses

Development of rise ad fall platform recirculating harness attachment

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#### **Project Description**

The project undertaken aimed to provide a safety solution to reduce the risk of injury from falling of a rise and fall platform (R&FP) using harnesses.

### **Project Content**

To reduce the risk of injury from falling off a Rise and Fall Platform (R&FP), harnesses are required to be worn. This is now conventional in the meat industry.

Covid has seriously impacted labour availability, requiring high levels of first-time training. This leads to a mix of experienced and in-experienced boners on R&FP at one time and sometimes a supervisor as well. Boners follow left to right carcase movement on the platform to complete their task. Upon completion of a carcase, Boners re-circulate behind other working boners. Inexperienced Boners take longer, limiting throughput rate, as they use the full R&FP length to complete their tasks. Experienced Boners complete their tasks earlier and 'cut-out' early in recirculation, thus boning more carcase than learners.

The purpose of this project is to reduce the risk of injury from falling of a rise and fall platform (R&FP) using harnesses. In addressing this objective, we aim to:

- 1. Satisfies fall restraint requirements
- 2. Allows Boners Recirculate behind without any need to detach and re-attach
- 3. Does not encumber, but improves ergonomic performance and postural support where possible
- 4. Allows for quick, single handed attachment and detachment
- 5. Allows for early cut out
- 6. Is reliable, durable, corrosion resistant, and acceptably non-shedding of particulate material
- 7. Preferably not complicated nor high maintenance
- 8. Can be mounted on and within the size constraints of the R&FP
- 9. Does not inhibit throwing of bones onto the bones belt
- 10. Does not add excessively to the platform weight
- 11. Does not create other safety problems

The research project is driven by the need to provide a mechanism that allows a harness tether attachment, with minimal ergonomic encumbrance, for the recirculating boner path and early 'cut-out', is quite novel and challenging and thus requires research and development towards a solution.

#### **Project Outcome**

The project was successful at designing, developing, and implementing a method that reduces the risk of injury from falling off a R&FP. An initial 3D concept model and drawings was developed. A protype was then trialled in the workshop and modifications occurred based on the initial assessments. A protype was installed into production and trialled with employees. Feedback and improvements were identified and actioned. The remainder of the R&FP were installed. All boners without a bar on the R&FP now wear a harness as part of their safety.

## **Benefit for Industry**

A working mechanism and solution has been developed that allows a harness tether attachment, with minimal ergonomic encumbrance, for the recirculating boner path and early 'cut-out'. This allows the industry to have both experienced and in-experienced boners on R&FP at one time. Furthermore, it allows boners to re-circulate behind other working boners and allows for inexperienced boners to take the time required to learn. This project has provided a solution that reduces the safety risk for the company and industry.