

No More Mess, Thanks to the Moose's!



The end of April brought about the completion of **Sugar Australia – Yarraville's** twelfth cycle of improvement with 11 teams successfully completing their Improvement Activities. A cycle being a 12 – 14 week program where teams come together for ½ hour meetings and 1½ hour activity each week to help improve the current state of their workplace, equipment and processes.

One of these successful teams was the **"Return of the Moose's"** (as seen in Figure 1 below) an Operator Equipment Management Step 2 (OEM-2) Team. The aim of the OEM-2 program is to restore equipment to its "ideal" state by establishing Basic Equipment Conditions through regular Clean for Inspection activities to address Equipment Defects, Sources of Contamination and Difficult to Access Areas.

Figure 1: "Return of the Moose's Team"



L to R: Daniel Prout, Andrew Shepherd, Rodney Martin, Grant Mackie and Jignesh Modi

The team's focus was the Industrial Packaging Line (IPL) which was divided into 4 areas:

1. Equipment on Silo floor
2. Bag filling machine
3. Sewing Machine up to the Palletiser
4. Palletiser

After weeks of planning improvements that addressed issues of 'Source of Contamination' and 'Difficult to Access Areas', the Moose's presented their improvement ideas and were approved \$12,000 to implement the following:

1) Installation of Store-function – to reduce sugar dust at the filling machine.

- Finish Fabrication of Store-function equipment;
- Modification of hopper below filling scales to create room for Store-function installation; and
- Installation and trial of new Store-function.

2) Modification to existing dust-extraction outlet layouts in Statec Bag filling unit enclosure – to improve dust extraction and reduce sources of sugar dust.

- Removal of existing dust extraction;
- Modify / make new length dust-extraction outlets;
- Installation of dust-extraction outlets; and
- Sealing off the top of the Statec filling unit.

3) IPL Magnet Hatch modification – to reduce sugar dust.

- Removal and modification of Magnet Hatch; and
- Installation of modified Magnet Hatch.

4) IPL Palletiser fence relocation – to improve access to clean and inspect.

- Removal of existing fence;

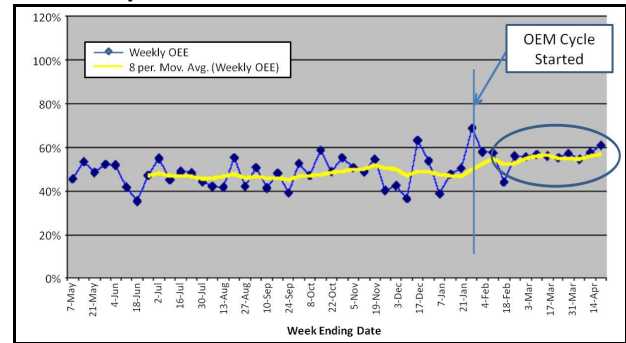
- Modification of fence as per new layout; and
- Installation of modified fence as per new layout.

5) IPL palletiser roller conveyor – to improve access to clean and inspect.

- Fabrication and installation of gap filling plate.

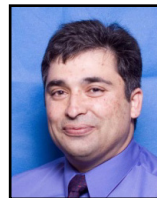
By conducting “Regular Clean for Inspections” and implementing the improvement projects above, the team has not only seen a **10% improvement in % Overall Equipment Effectiveness (OEE)**, but also a **reduction in the variation of % OEE** due to the equipment being less contaminated (refer to Figure 2 for results of Weekly OEE on the IPL Line). These improvements will provide a saving of approximately **\$43,000 per annum**.

Figure 2: Weekly OEE Graph for ‘All Products’ packed on the Yarraville IPL Line



CTPM congratulates the “**Return of the Moose’s**” team on an excellent effort and result.

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