

# ACM Machinery Intervention Project

Start Date: 27<sup>th</sup> November 2012

End Date : 7<sup>th</sup> June 2014

# ACM Machinery Intervention Project

- Initial Requirement
- Provided additional localised guarding to leg processor units
- End Result Complete Enclosure of machine with moving parts.
- Complete rewire of electrical safety circuits
- Additional fixed guarding
- Castell Key System

# ACM Machinery Intervention Project

- This is how the machine looked originally



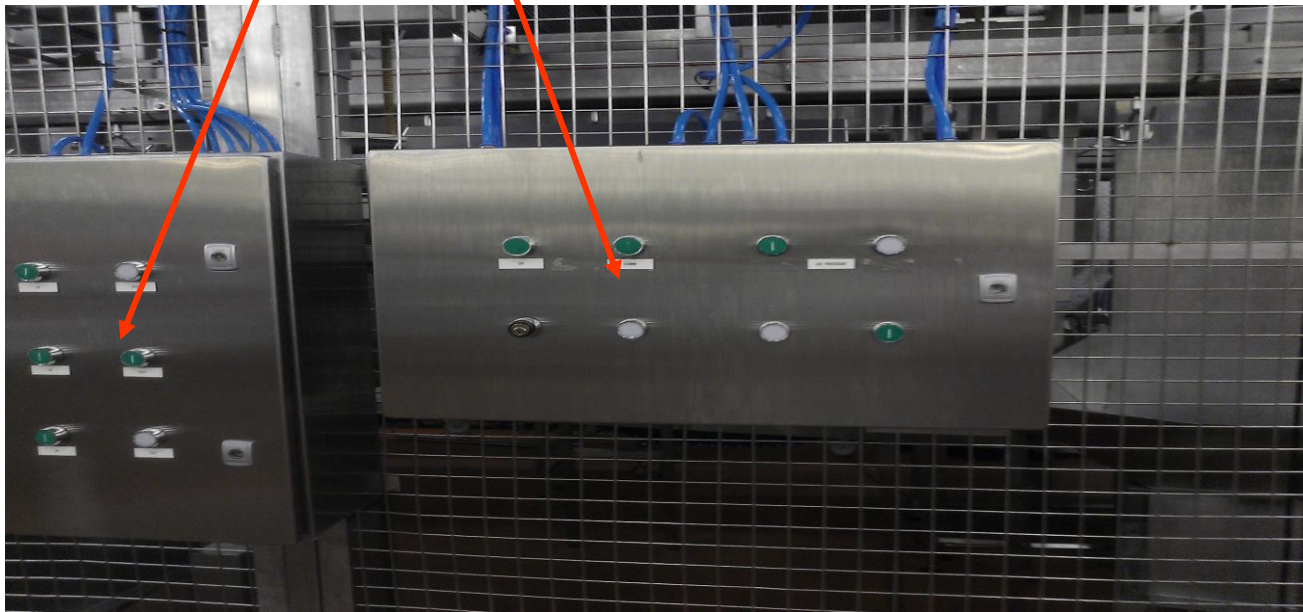
**Machine Minders had to work inside here!**



**Machine Minder would override safety circuit to gain entry into the machine enclosure**

# ACM Machine Intervention Phase 1

- Supply and Air motors and Control Panel to Line 1. This controls the lateral and horizontal movements of all processing modules. This was previously done with a handle inside the machine enclosure itself

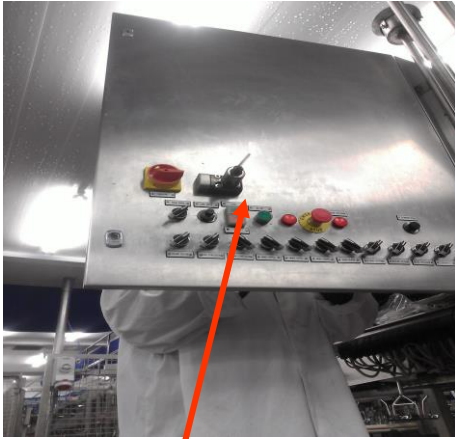


# ACM Machine Intervention Phase 1

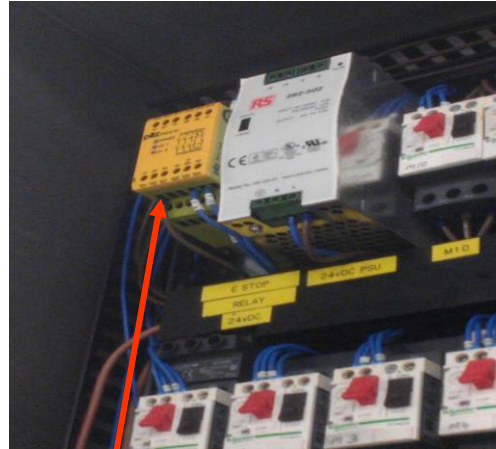
- After Phase 1 was completed it became apparent that there was no suitable location for the second panel for Line 2. This because the rear of the machine was still not fully protected with fixed guarding
- **In short we had no where to locate the second panel because machine minders require 'line of sight' to adjust for variation in bird size. The original intention was to fit both panels together**

# ACM Machine Intervention Project

## Phase 2



**Castell Key which operates rear gate**

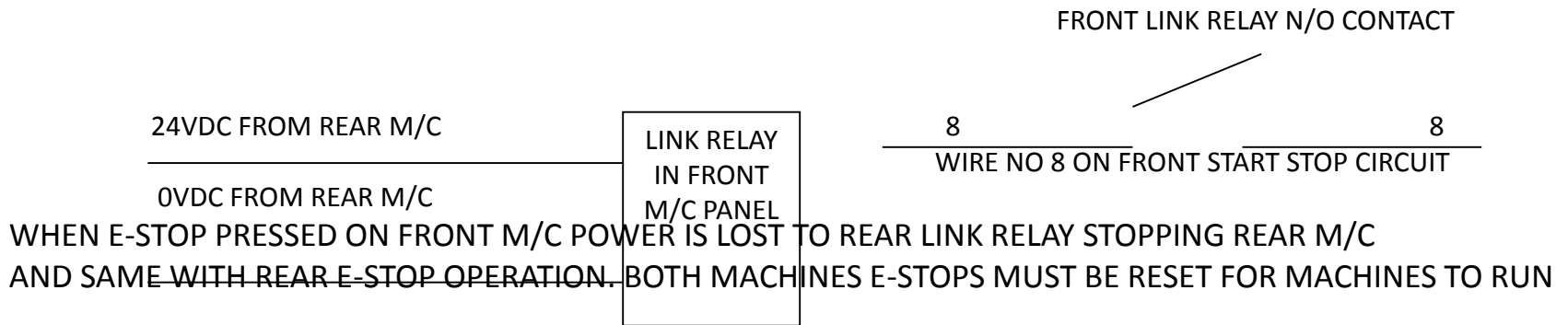
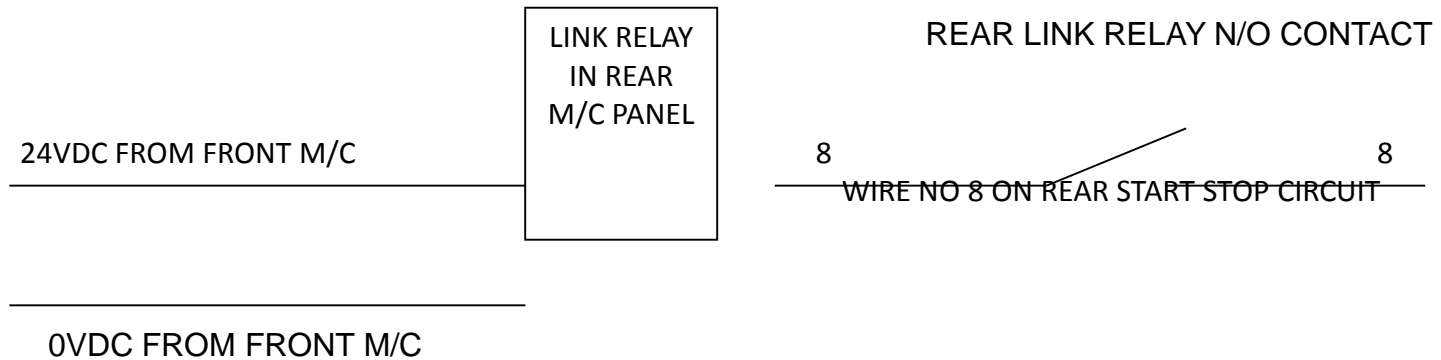


**Dual Channel Monitored Safety Relay Piltz Type**

# ACM Machine Intervention Project

## Phase 2

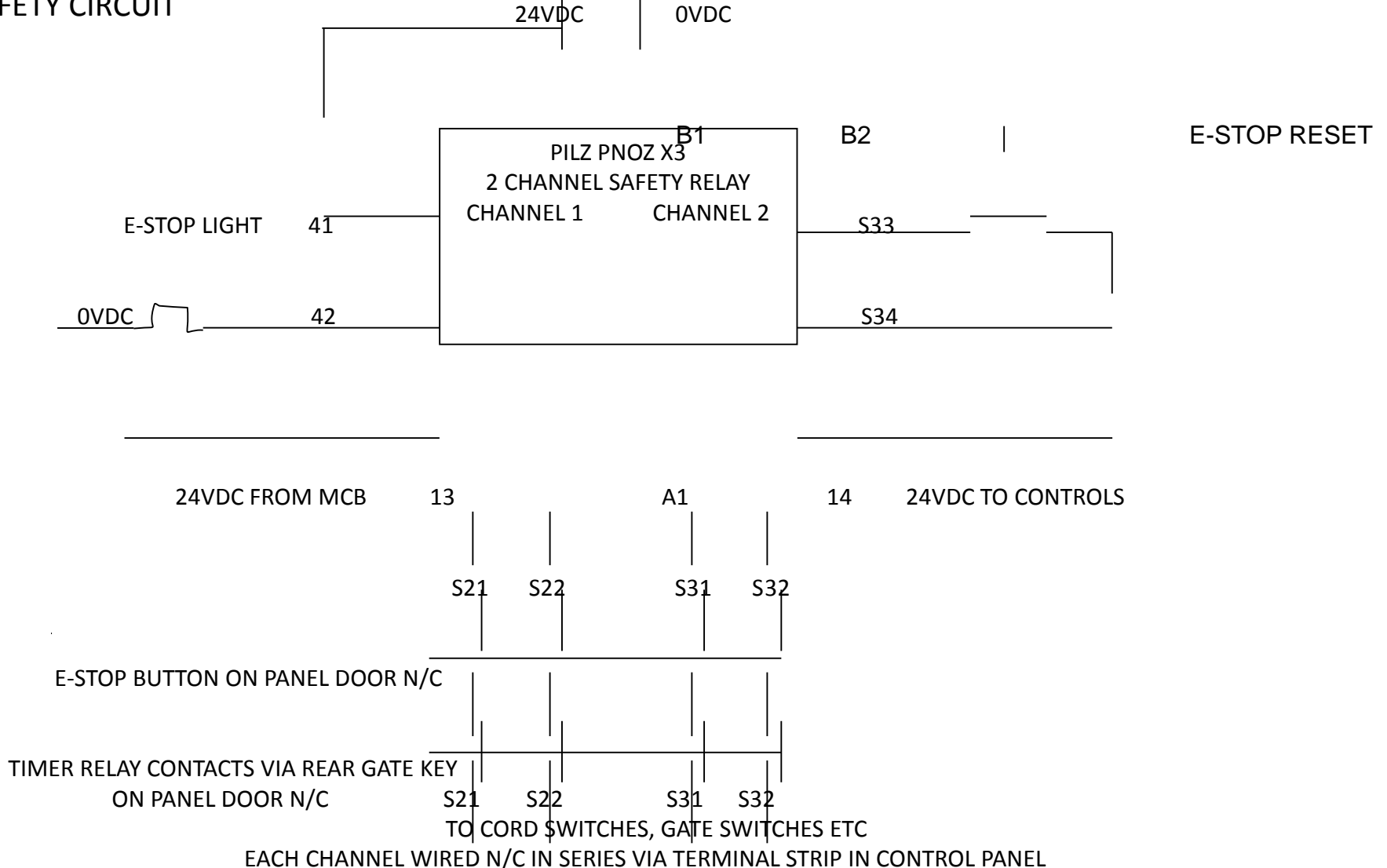
2 SISTERS BEVAN WAY SITE A CUT UP LINE  
INTERCONNECTING SAFETY LINK WIRING



# ACM Machine Intervention Project

## Phase 2

2 SISTERS BEVAN WAY SITE A CUT UP LINE FRONT MACHINE SAFETY CIRCUIT

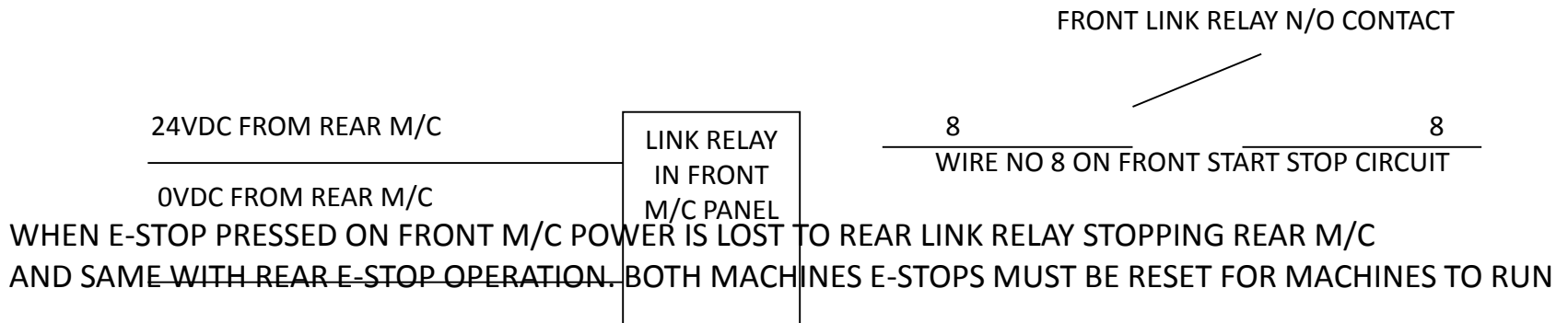
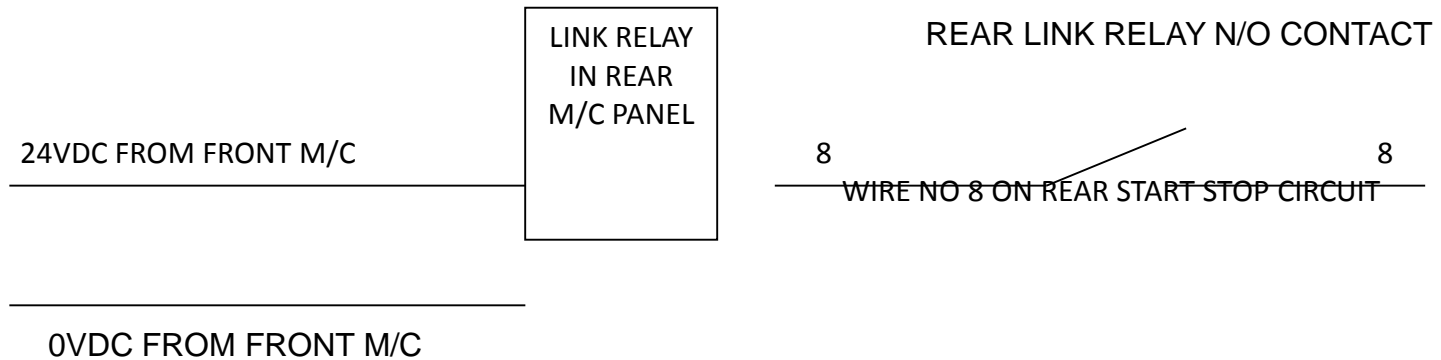




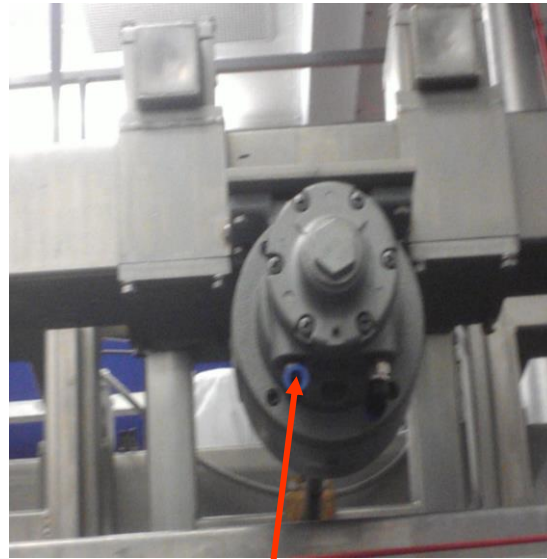
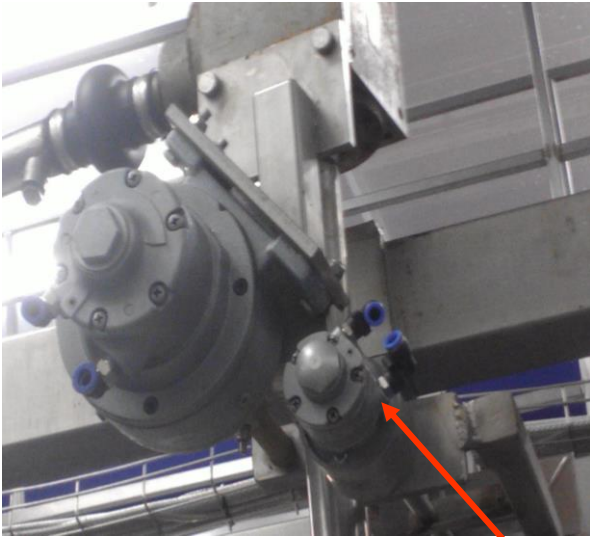
# ACM Machine Intervention Project

2 SISTERS BEVAN WAY SITE A CUT IP LINE  
INTERCONNECTING SAFETY LINK WIRING

## Phase 2



# ACM Machine Intervention Project Phase 2



**Air Motors operated  
from outside the  
machine enclosure**

# ACM Machine Intervention Project

## Phase 2



**New Sliding Gate with Interlock**



**Air Motor Control Panel Line 2**



**Fence Guard to Rear of Machine 12 metres in length!**



**Castell Type key restricted access to fenced area**



**New Infill Panels Near Operators**

# ACM Machine Intervention Project

## Phase 2



**Leg Processor  
Safety Switch**

**These are going to be replaced with a dual channel type at next service visit .N.B They are within the enclosure itself and the machine will run without it being in place**

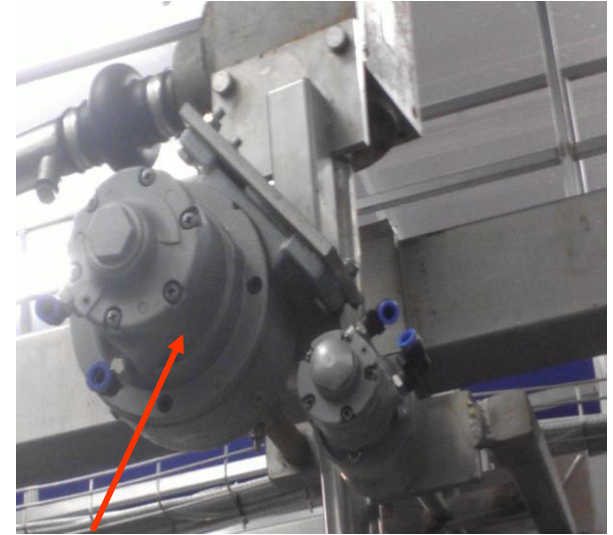
# ACM Machine Intervention Project

## Phase 2

- Whats Left To Do?



**This conveyor needs to be doubled tiered which give more space to the back of the machine**



**Line 1 Motors to be replaced with the new uprated type as the initial 'prototype' ones struggled to turn the adjusters if they were in less than perfect condition**

# ACM Machine Intervention Project

## Phase 2

- Lessons Learnt
- Machinery Intervention Assessment must be carried out BEFORE any work of this type is carried out
- Make sure there is contingency fund in your CAPEX application. I had resubmit mine which delayed the process by several months!
- Electrical Wiring Diagrams must be kept up to date. This particularly important on older machinery like this