Potential Hazard to Service Personnel working inside an Automatic Pallet Loader

Scope

This safety alert applies to a Magnus VLF with Automatic Pallet Loader (APL). A potential hazardous situation may exist when working inside an APL with the APL power still on.

Potential Hazard

When a service engineer troubleshoots an APL problem, he activates the SIO key switch and may go inside the APL to monitor and analyze subsystem or component performance. If the safety relays fail and the safety interlocked access panels are open, the table gantry can still move. Because the table gantry moves very quickly and quietly, there is a potential hazard to service personal working on the APL subsystem. For example, during the APL initialization the table gantry may move.

Prevention

Important: Turn the APL main power switch to **OFF** before working inside the APL. If the APL power must be on for troubleshooting, then it is important to physically remove AC power to the X-axis servo amplifier to prevent unexpected movement by following the steps outlined in the Solution section.

Solution

Perform the following steps if the APL power must be on for troubleshooting:

1. Turn the main power switch on the APL power box to **OFF**.

2. Remove the power box front panel.

3. Unplug cable 220-01648A connector from J3 (labeled both J3 and PDB-PS3) on the PDB. This removes AC power to the X-axis servo amplifier to prevent unexpected movement of the gantry in the event that the safety relay contacts are welded, such as during APL initializations or service shell commands.

4. Turn the SIO key switch to the **Interlock Override** position.

5. Connect the service emergency stop switch cable to the connector on the SIO bracket.

6. Turn the main power switch on the APL power box to **On**.

7. Perform the troubleshooting actions