Energy Source Evaluation

Equipment Model/Name:	Block Machine- Servopac Select Hydraulic Machine
Evaluated By:	Travis Witulski
Evaluation Date:	24 January 2020

Definitions:

- Energy Source Type: Mechanical (Gravity, Springs, Hydraulic, Pneumatic), Electrical, Thermal, Chemical, Etc.
- Component Name: Bar Conveyor Drive, Depalleter pusher lift, FDC Drive, etc.
- Recommended Isolation: Electrical disconnect, block/chain, pneumatic/hydraulic disconnect, discharge, etc.

Energy Source Type	Component Name	Recommended Isolation
Electrical	Power Unit Panel and Wiring	Lockout disconnect on electrical panel
Electrical	Machine Panel and Wiring	Lockout disconnect on electrical panel
Electrical	Frequency Drives/Inverters	Wait 3 minutes, measure DC Bus voltage at the +DC terminal and the -DC test point, voltage must be zero
Pneumatic	Pick & Place, Magnet	Lockout incoming airline, block up magnet moving cylinder
Gravity	Stripper Head Frame	Block and/or engage shot pins
Thermal	Heated Stripper Shoes	Turn off and tag heat controls
Hydraulic	Head Clamp, Inner Frame, Stripper Head, Pallet Receiver, Feedbox, Pallet Delivery, Hopper Gates & Drum, Pallet Delivery, Pallet Stacker, Apron Plate, Moveable End Liners	Lockout electrical disconnect to hydraulic power unit, ensure system pressure is at zero