ENERGY CONTROL AND POWER LOCKOUT

PURPOSE: The purpose of this guideline is to outline the criteria as well as present a method that will satisfy the requirements for the control of hazardous energy during the service and maintenance of Laempe CoreCenters.

Prior to initating any action it must first be determined if the maintenance procedure requires the tooling to remain in, or be removed from, the core shooter. After this determination is made, the shut down operation may proceed.

To Achieve ZMS With Tooling In Place

- Taking in consideration the type of maintenance to be performed, move all machine components into such areas as afford the best access to carry out the task assigned.

- At this point move all equipment having a vertical motion to it's lowest possible elevation. This may be achieved by resetting proximity switches so as to allow hydraulic and pneumatic cylinders achieve their maximum extended or retracted position as the case may be. If it is not practical to employ this approach the moving pieces should be lowered to the point where they make physical contact with supports specifically designed for this task. If the maintenance procedure requires the equipment to be in an elevated position then blocking specifically designed for this task must be placed so as to support the piece without creating a pinch point.

- ALL electrical power sources supplying energy to the machine, the cabin as well as any related support equipment not necessarily supplied by Laempe Mössner Sinto GmbH must be locked out and tagged by EACH worker operating within the scope of the maintenance project assigned.

- ALL pneumatic power sources supplying energy to the machine, the cabin as well as any related support equipment not necessarily supplied by Laempe Mössner Sinto GmbH must be locked out and tagged by EACH worker operating within the scope of the project. All lines and reservoirs must be drained of stored energy. Lines known to retain pressure when electrical power is turned off should be appropriately marked and opened to relieve residual pressure.

- The hydraulic system's main pressure line should be broken by slowly loosening several connections to assure against the possibility of any residual pressure. Other lines known to retain pressure when electrical power is turned off should be appropriately marked and opened to relieve residual pressure.

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