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Significant Risk Assessment – Lockout Tagout Tryout (LOTOTO)



Potentially Fatal Risk	Critical Controls to Reduce or Eliminate
Not isolating the energy source properly	Properly labeled equipment
	Placing a lock on equipment with a single key (for each individual working on the system)
	Proper isolation of all sources coming into by blocking and bleeding, blinding, or other completion isolation methods or approved variance with other acceptable controls
	Pre-LOTOTO walk-through to assess lockout points and process for ensuring all locked out
	Pre-task risk assessment and evaluation of critical controls and effectiveness of controls
	Tryout of locked system to ensure properly isolated
	Use of a log book, area inspection form or other means of communication for complex jobs
	Critical Behaviors – communicating with the ECC to determine lockout points and LOTOTO plan; LOTOTO training for all individuals performing the lockout
Uncontrolled stored energy	Release hazardous energy by bleeding, relieving, disconnecting, restraining or otherwise controlling
	Pre-task risk assessment to determine potential energy sources
	Use of LOTOTOT process
	Critical Behaviors – placing personal lock and tag on energy isolating device; ensuring that potential energy sources have been dissipated; verifying equipment is in zero energy state prior to starting work
Not considering all sources of energy	Available area blueprints/schematics for affected area
	Pre-task risk assessment to determine potential energy sources
	Critical Behaviors – Tryout of the locked out source

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Red Flags – Indicate potential unsafe behavior or lack of controls
Personal lock key is not on the person (i.e., in the tool box, truck, with someone else)
Not every line has been identified to be double blocked, bled, and/or broke
Not all areas of machinery have been identified for lockout
ECC is not familiar with the area being locked out
Correct lock out sequence was not followed
Correct startup procedure was not followed
Personal tag does not have the correct information communicated
Non-routine lock removal procedure was not followed
Improper tag being used with lock
Less locks on a box or control than the number of people working in the area
No tags on lockout sources