

**Facility:**

Liquid Waste Contractor SRMC / Savannah River Site

**Best Practice Title:**

Work Instruction note to identify the hazards which are controlled with a lockout.

**Point of Contact:**

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**Brief Description of Best Practice:**

A tool to help the lockout writer know what hazards the planner (hazard identifier) is expected to be mitigated by a Lockout. It is also a tool for the mechanic performing the work to know what forms of hazardous energy the lockout they are working under is protecting them from.

**Why the best practice was used:**

It was put into place because there was a chance that the lockout writer would not properly identify a hazard needing to be controlled that the planner had expected the lockout to protect the workers from (in this case the hazard was Heat Trace).

**What are the benefits of the best practice:**

Less opportunity for human error due to clearer communications and what ends up being a second review (peer check) of hazardous energy sources.

**What problems/issues were associated with the best practice:**

There were interpretative issues with what energy source would be identified in the table. For example, if the energy source at the work location was 25-pound steam, but the lockout required the 150 pound steam to be locked out to depressurize the 25 pound steam, it caused some confusion. Training was then developed to explain that the table was to identify the hazard the worker was exposed to and explicitly clarify that it wasn't to take the place of a thorough review of a lockout to ensure a safe energy state.

**How the success of the Best Practice was measured:**

We have seen by direct observation that the table often prompts more and better discussions with the lockout writers and the planners. It also requires the planners to “dig a little deeper” into the energy type, amount and source(s). This tool has been identified as a Note Worthy Practice on assessments.

**Description of process experience using the Best Practice:**

The table is part of the Planner Work Instruction Template (PWIT), so it is available for each package. The planner inserts it into each package that requires a lockout whether it’s a single point lockout or a documented lockout. As previously described the lockout writer when reviewing the package and understanding the scope develops the lockout and ensures what they lock out aligns with what the planner thought was needed. Any delta is then discussed between them and resolved.

**NOTE**

Hazardous Energy Types Controlled by Lockout Order.

Source voltage: \_\_\_\_\_ Nominal Phase to Ground Voltage

Power Feed Location: \_\_\_\_\_.

Arc Flash Hazard/Risk Cat. (HRC): \_\_\_\_\_ at \_\_\_\_\_ inches working distance

Steam: \_\_\_\_\_ psig

Plant Air: \_\_\_\_\_ psig

Instrument Air: \_\_\_\_\_ psig

Domestic Water: \_\_\_\_\_ psig

Flush Water: \_\_\_\_\_ psig

Chromate Water: \_\_\_\_\_ psig

Inhibited/Bearing Water: \_\_\_\_\_ psig

Caustic/Acid: \_\_\_\_\_ psig

Waste Transfer: \_\_\_\_\_ psig

*(Planner - enter data, add/delete Energy Types as Applicable)*