

TOOLBOX TALK

TopicEnergy Control (LOTO, LOTOTO)

Ref HSMS TBT

Audience

Persimmon

Site Operatives, Contractors

Presenter

GHSEA, Production Managers & Deputies

Subject



Why is control of energy necessary?

Prevents injury due to unexpected startup of equipment or released energy Maintenance/servicing and sometimes day to day operation of machinery often require employees to place part or all of his/her body into a machine's point of operation (*danger zone*) – this should only ever happen following isolation & lockout of all energy sources (sometimes called LOTO or LOTOTO)

Applies to both Electrical and Mechanical Energy Sources (often both)



REMEMBER – A switch is NOT sufficient - Isolations MUST have a positive LOCK

Types of Energy Source (not an exhaustive list)

Electricity Thermal (Hot/Cold) Steam Hydraulics Gravity Magnetic

Pneumatics Springs Radiation



What can go wrong? Potential exposure to moving

Potential exposure to moving parts and energy sources **Sudden restart of machinery**

potential outcomes include...

- Electrocution
- Entanglement/trapping/crushing/Shearing etc.
- Burns from steam
- Compressed air injury
- Exposure to toxic/harmful chemicals
- Asphyxiation
- Fire risks



Key Principles

REMEMBER – A switch is NOT sufficient

Isolations MUST have a positive LOCK.

Persons working in the danger zone have control of the isolations by putting their Personal lock onto the lockbox.

Keeping our team safe









Persimmon

Steps to Energy Control

1. **IDENTIFY** the types of energy sources, potential hazards and all control devices.



2. **NOTIFY** ALL affected persons



3. Test then TURN OFF all operating controls



4. LOCATE all energy sources & ISOLATE them



5. LOCK OUT - Apply a positive LOCK to all isolations



6. **TEST** (Try Out) all operating controls to ensure the isolations are working correctly (sometimes called "test for dead")





7. **PERFORM THE TASK - Affected Persons** carry out the task safely. Personal keys on the lockbox securing the isolations whilst in the danger zone



8. **REMOVE** - once the task is complete and ALL Affected Persons are clear of the danger zone (and removed personal locks), remove LOCKS and ISOLATIONS.

IF IN ANY DOUBT ABOUT ENERGY CONTROL

Keeping our team safe

- DO NOT PROCEED
- ASK!

