

Steam Exposure

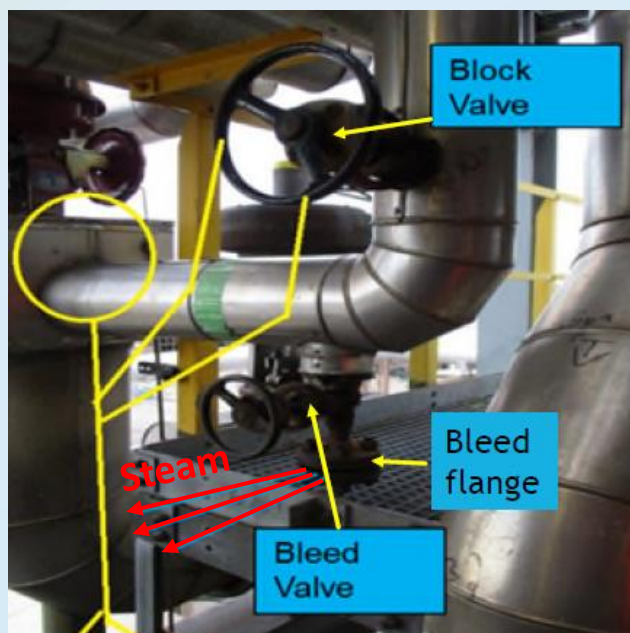
EPSC Learning Sheet , September 2018



EPSC

What Happened:

Condensate was drained from a steam line by opening the bleed valve and flange (for maintenance). When an operator opened the block valve, he was hit by steam that came out of the bleed flange (see drawing).



Aspects:

- The special line-up (draining) was not secured by a locked block valve. LOTO can help to secure the block valve
- The special situation was described in the logbook, but insufficiently addressed in the shift handover
- Identifying the special situation in the field by a label can help warning the operator of this special line-up
- Utilities might have a lower level of attention, but steam and nitrogen are hazardous and require full attention
- The hazards of special line-up need to be understood
- Heat and fire resistant clothing can help to mitigate injury

Secure the hazards of special line-ups