

SAFETY ALERT

HIPO – Local switch of auxiliary drive of raw mill 4



Hierarchy
of Control

E Eliminate
R Reduce
I Isolate
C Control
P Protect



Isolation Procedures
Never work on live or
moving machinery –
always 'lock out'.



STOP THINK ACT

Details of the incident

In preparation for maintenance works, the auxiliary drive of raw mill 4 needed to be isolated by LoToTo (by CX-personnel).

During a VFL, it was noticed that the local switch was secured with a padlock, but the switch was still in the ON-position. This means that there was no all-pole disconnection from the electrical mains, which could have made a start-up of the auxiliary drive possible during the repair activities.



Key Findings

- The local switch can be 'secured' with a padlock in both, in the ON- and OFF-positions.
- Incorrect execution of the demanded try-out test.

How could they have been avoided?

- Observe the position of the main switch precisely, when attaching the padlock.
- Correct execution of the try-out test.
- Use of main switches that can only be secured in the OFF-position ("Poka-Yoke"-principle).

Key review points

- Ensure that the main switch is in the O-position (OFF, "09:00") before attaching the padlock.
- Name and signature on "permit to work" by CX-person securing the facility.
- Assess number and costs of safer local switches, which can only be secured in OFF-position.

Local switch – ON-position



Local switch – OFF-position

