

BEST PRACTICE

LOCATION:	Cement plant	ARTICLE YEAR	2012
ACTIVITY:	Maintenance & Housekeeping	COMPANY:	CEMEX UK
SUB ACTIVITY:	N/A	COMPANY LOCATION:	Rugby Cement Plant
BEST PRACTICE No:	BP832	COMPANY TEL:	01788 557757
COUNTRY OF ORIGIN:	United Kingdom		

TITLE

Cardox port safety device

ARTICLE

Description

Cardox tubes are used extensively in cement plants to clear process blockages by the controlled rapid discharge of high pressure CO₂ stored in the tube. Cardox ports are used to allow access to inspect and clear build up of material within the process. A port cap is removed to inspect internally for build up and, if required, the tube is then inserted to clear the blockage. However, on some occasions due to a blockage, hot material at 900°C+ immediately flows out of the port when the cap is removed. This exposes the operator to high risk and makes it very difficult to replace the cap to stop the flow of material.

CEMEX UK's mechanical team at the Rugby Plant developed a cover which can be fitted over the Cardox port, equipped with a closable spade. If material starts to flow when the cap is removed, the operator can slide the cover across stopping the flow without the need to replace the cap. A safe system of work for the inspection of Cardox ports is now in place with all operatives trained.

SEE ADDITIONAL PDF FOR MORE INFORMATION

Benefits

The operator can quickly close the port from a safe position minimising the risk of burns

The safety of the individual does not rely on his experience, PPE factors or good luck

The equipment is now available as a standard tool provided by Cardox.

ARTICLE IMAGES