



BSI Standards Publication

Fire and explosion prevention and protection for bucket elevators

National foreword

This Published Document is the UK implementation of CEN/TR 16829:2016.

Earlier guidance on protection of bucket elevators from internal dust explosions was based on large scale experimental work carried out by the Health and Safety Laboratory and was published in the I Chem E guide to dust explosions. Since then many bucket elevators have been fitted with explosion protection based on this advice, as a result the number of explosions in bucket elevators has reduced in recent years. This seems likely to be the consequence of improved controls over ignition sources in the elevators, as described in this TR.

The UK committee cannot see a justification for retrofitting older elevators built to I Chem E guidelines in order to meet the venting advice in this TR. Moreover, provided the details of an installation closely follow that used in the HSL research, a bucket elevator fitted with vents according to the I Chem E guide, and other features as described in this TR, then it should meet the requirements of DSEAR, and the reasonably practical precautions required by the HSW Act. The Approved Code of Practice and further guidance on the Regulations can be found in HSE publication L138.

The UK participation in its preparation was entrusted to Technical Committee EXL/23/1, Flame arresters.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

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