CHIMNEY EMISSION CONTROL PROJECT

CHIMNEY LINING SYSTEM: BOROSILICATE BLOCK

Project Participants

Owner

CLP Power Hong Kong Limited

Chimney EPC Contractor

BEC Specialist (Hong Kong) Ltd.

Lining System Pennguard Borosilicate Lining System

CLP POWER STATION



CLP Power is a subsidiary of China Light and Power, and is the leading electricity supplier in Hong Kong. It has a combined installed capacity of 4,108MW and is one of the largest coal firing power stations in the world.

CLP Power Station Project

The Castle Peak B Power Station consists of four 677MW units, which uses a common 250m high chimney containing four steel flues within a reinforced concrete windshield. Originally, these steel flues did not have an internal lining.

Detail of work by BEC

BEC was awarded the package to install 18,320m² of Pennguard borosilicate lining to the internal surface of the 4no flues. This was performed during the scheduled boiler outages.

Challenges

- Limited and specialised access due to confined space and design of scaffold
- Tight schedule of 21 days per unit
- Interface with other works



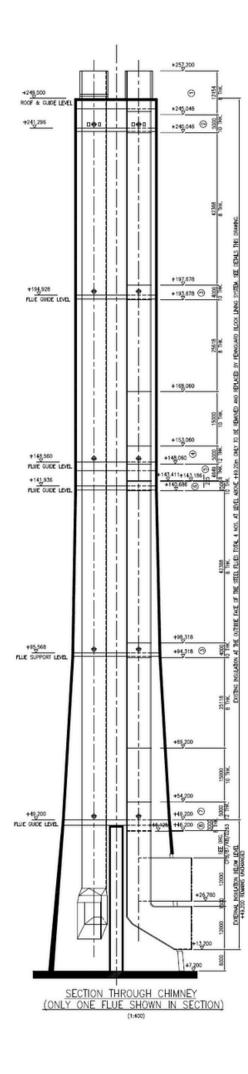
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CASE STUDY CLP CASTLE PEAK STATION B





Castle Peak stack

Chimney data:Height250mNo. of internal steel flues4No. of internal platforms6Diameter of internal flues6.6mExternal concrete diameter23m – 22.5mDuct elbow area1100m 7 unitInternal flue area4580m 7 unit



