

Case Study 12: Stack Access

Oak Grove Power Plant - Waco, TX

Contractor: Hadek Protective Systems BV – a Dutch company doing its first US project ever

Project Scope:

Installation of a Pennguard® ceramic brick liner to a 450 ft (137.2 m) tall stack

Challenges:

- Providing a platform that was large enough and had enough capacity to provide support and access through all of the stages of work - blasting, cleaning, brick laying, and inspection.
- Contractor new to US safety codes

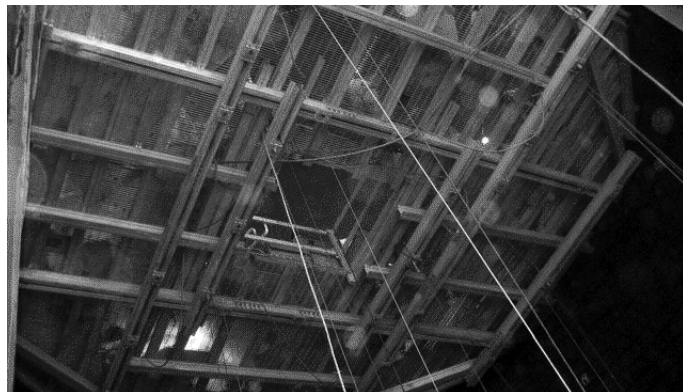
Solution:

Custom engineered 31 ft (9.5 m) round float platform equipped with nine SC-1500 hoists with 13,500 lb (6,123.5 kg) capacity for worker and brick loads. The precise 31 ft (9.5 m) platform diameter put the mason at the lining wall.

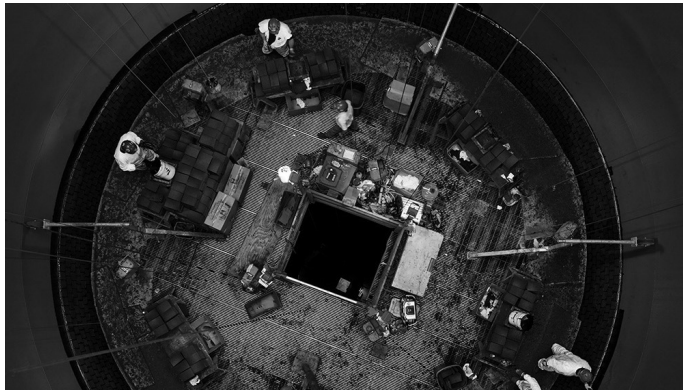
The platform was pre-assembled offsite, then broken down, numbered and tagged prior to shipping to the job. Then each piece was hoisted to the 150 ft (45.7 m) level for assembly in the 33 ft (10.1 m) wide stack.

- Grated decking sped up abrasive debris removal during blasting
- Top of stack rigging to attach the 18 suspension wire ropes

A 4 ft (1.2 m) square access hole in the platform's center was designed in to take a work basket from ground level to the elevated platform throughout the work shift. This transit basket brought workers, bricks and the adhesive, which was mixed in small batches for quick application. This critical feature shaved weeks off the production schedule.



Custom engineered solution
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