

CASE FILE

Coke Build-Up Is No Contest with Sponge-Jet

The Customer
Oil Refinery, AUSTRALIA

The Application
Refinery Furnace

The refinery job scope entailed blasting with Sponge-Jet to remove coke build up which ranged from 4mm to 8mm in thickness. The problem - the gas burnt becomes less efficient due to the heavy build up of coke. The cleaner they are the more heat is transferred into the furnace.

The process involves cutting out all the pipes that are built up in heavy coke leaving a small portion to be blasted clean and then a new pipe is installed by welding it to the stub that has been blasted.



Typical coak, thickness 4mm, to be removed

Traditionally Garnet has been used for this process, BUT being a confined space no other personnel could work in the vicinity not to mention the tonnes of garnet that has to be hand removed from the furnace floor.

Huge Benefits With Sponge-Jet

By using Sponge-Jet, the Customer was able to have other personnel inside the furnace. They were at the opposite end of the furnace and were able to cut out pipes, tool and weld in the same environment. The reclaiming of Sponge-Jet was via a vacuum cleaner and then transferred to the recycler.



Brought to you by...

REZitech



View with coke removed, after blasting with Sponge-Jet

The last time they visited the coke removal they used all tooling with carbide tips with an average of 5.5 hrs per pipe not to mention the cost in spent tool tips.

With sponge-Jet the average time spent on each pipe was 2 1/2 hrs per pipe and 36 pipes altogether.