

SITECH LINED DMC LOWER CONE & SPIGOT

DMC / SiTech / Coal

Location New Zealand South Island
Industry Coal Processing

THE CHALLENGE

Increase the life of the DMC 1m cyclone spigot and Lower Cone. The existing cyclone was NiHard (27% Cr) with the Spigot lasting 3-6 weeks and the Lower Cone lasting 9 weeks.

THE SOLUTION

HMA replaced the Spigot and bottom third of the Lower Cone with a monolithic SiTech and the balance of the Lower Cone with engineered alumina tiles.

THE OUTCOME

A substantial increase in life from 6 weeks to 20 weeks and longer if the feed chamber (NiHard) hadn't worn significantly to create damage and the interface of the two items. The Spigot and Lower Cone have been kept as a backup as they are still serviceable.

As a result of the extended life an Alumina lined Feed Chamber will be supplied along with the SiTech/ Alumina lined Lower Cone and SiTech Lined Spigot. It is envisaged that the wear rates will allow for complete cyclone change outs.



SiTech Spigot and Lower Cone