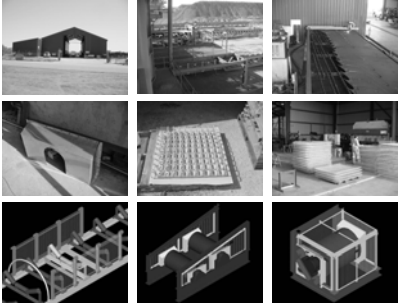


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Generic Conveyor guard design

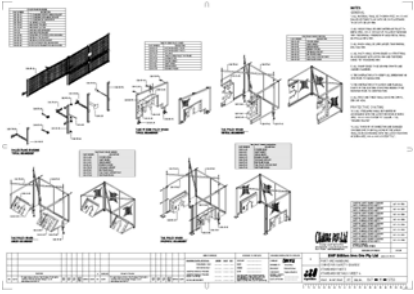
Since September 2004 Clading Pty Ltd has been involved in BHPBIO's FRCP7 project. Specifically: designing a generic style of guarding for conveyor systems that would be user friendly and yet, still conform as a minimum, to the rigorous design criteria demanded by Australian Standards AS1755-2000 and AS4024.1.



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User Friendly Assembly

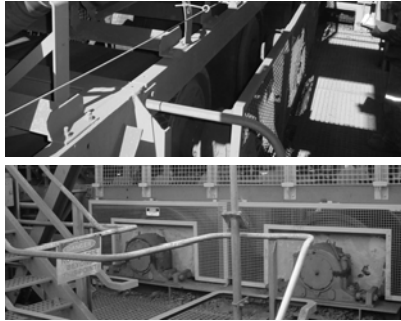
In close association with the principal engineers appointed by BHPBIO (John Bout and Douglas Yardley), Clading has developed a set of standard guidelines for their guard design, which, if implemented correctly, has the benefits of making it virtually impossible to accidentally access any nip points on a conveyor system and still allow access to all the condition monitoring points required for a conveyor specific maintenance program.





Generic Bend Pulley Guard Design

Guards for Bend Pulleys follow the same guidelines associated with Tail pulleys except that they are a hook on style and sit in specially designed bottom brackets. These Bend Pulley designs have a range of 100mm movement in the "x" plane. The variables which have been incorporated in the design of these Pulley guards, allows the tracking of the belt after Pulley changes, if required, without the need to reposition and remount the guards.





P602 Tail Pulley Before



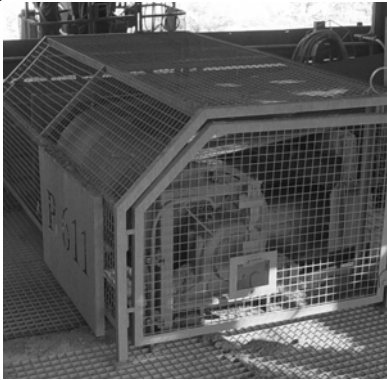


P602 Tail Pulley After



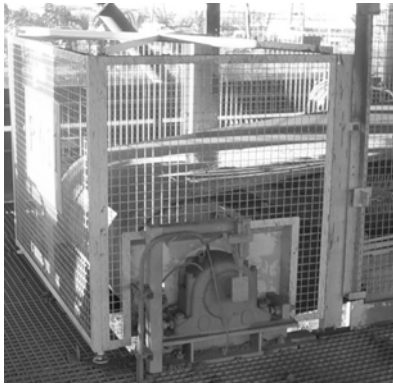


P611 Tail Pulley Before





P611 Tail Pulley After





P101 Take Up Pulleys Before





P101 Take Up Pulleys After





Tight & Awkward Access





Clean & Safe Access





Convex Section Guarded





Impact & Tail Transition





Powerful 3D Design Capabilities

The generic design and component style system allows these guards to be retrospectively fitted or incorporated into the design of new conveyor systems without the need to design a conveyor around a guarding system. The formula developed for designing these components has meant that there is no longer a need for plant designers to specifically design "One Off" guards for a mine or process facility. The integration of these guards can be done in the factory during the manufacture of the conveyor or on site as the system is being installed.

