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Contact Information:
David Gribble, Manager Applications Technology
Office: +61 8 6188 3006
Email: david.gribble@ap.dynonobel.com

DigiShot[®] Plus Delivers World Record Blast

In another groundbreaking performance by Dyno Nobel, the world record for the largest number of electronic detonators fired in a single blast was smashed at the BHP Billiton Iron Ore Jimblebar operation, 40km east of Newman, with 6,382 detonators being fired in a single blast. In this blast, BHP Billiton also claimed a Western Australian record for the largest open cut mine blast, liberating 10.7 million tonnes of iron ore.

The mine initially chose DigiShot Plus detonators to minimise misfires, simplify reconciliation and eliminate the need to check the hole-to-hole tie in, resulting in a considerable time saving on the day of firing. After building confidence in the system to deliver great results and fire big shots, the mine set themselves the challenge of firing a shot that would deliver planning and production benefits through its sheer size.

The blast was mostly single primed, with over 2,500 tonnes of bulk explosives loaded in a two week period. The shot was initiated on time, without any delays and with no leakage on any channel. The mine was thrilled with the blast result and are the proud new owners of a World Record for the most electronic detonators fired in a single blast.

DigiShot Plus detonators are Dyno Nobel's solution for medium to large open cut mines. When paired with SmartShot[®] control equipment, the system is capable of initiating more than 12,000 detonators in a single blast. This is achieved by synchronising four Bench Boxes via Radio Frequency (RF) communication. Currently, Dyno Nobel is the only supplier of electronic detonators capable of synchronised blasting using RF only, no physical wire link is required between the firing point and the blast or between the control equipment on the bench.

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Dyno Nobel Asia Pacific Pty Limited (ACN 003 269 010) is a subsidiary of Incitec Pivot Limited (ACN 004 080 264) Level 8, 28 Freshwater Place, Southbank Vic 3006. Phone 1800 251 872 | Fax 07 3026 3999 | www.dynonobel.com

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