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[link to website]

**LIGHTNING RISK REDUCTION**

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[link to website]
The use of WebGen™ technology can eliminate the risk of lightning induced explosion hazards in loaded blast holes, including holes that remain unstemmed.

With the removal of all remaining explosives from the bench, mine sites no longer require a lightning exclusion zone to continue operations, reducing mine operation downtime that exists with the use of conventional initiating systems.

WebGen™ allows for groups of in-hole primers to be wirelessly initiated by a firing command that communicates through rock, air and water. This eliminates the need for surface connecting wires, enabling new mining methods and blasting techniques that are safe and reliable - removing people from harm’s way, reducing operating costs, and at the same time increasing productivity benefits.

Using low frequency magnetic signals to communicate with each WebGen™ primer prior to a blast, WebGen™ is the only commercial explosives product with a Safety Integrity Level (SIL) 3 rating – having the highest functional safety standard of any commercial explosives product in the world. The system includes an i-kon™ III plug detonator, a Pentex™ W booster and a DRX™, which is a digital receiver comprising a multi-directional antenna and a battery which serves as the in-hole power source.

At a depth of 3 metres below the collar of a blast hole, WebGen™ units are protected from the hazards of lightning. In a lightning event, the temperature and pressure effects of lightning are rapidly attenuated by the earth. The absence of lead wires in this scenario prevents current transfer. Additionally, the magnetic field induced by lightning will not carry the correct digital code to activate a WebGen™ unit for firing.

To learn more about wireless blasting solutions, please contact your local Orica representative or visit orica.com/wireless

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