




Queensland Mining Industry Health & Safety Conference 2003 Innovation Awards

Shuttle Car Cab Modifications

John Kelly & Garry O'Dwyer

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Background




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The Problem



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The Problem



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The Process Steps

- Shuttle Car Design Review Team established:
 - Development Supervisor
 - 2 x Development Operator/Maintainers
 - Development Projects Supervisor
 - 2 x Engineers
- Barbara McPhee (ergonomic specialist) – facilitated ergonomic design review with this team
- Boundaries & design modifications established
- Modifications trialled & tested during development
- Lastly, an operator/Maintainer who was not initially involved in the review, design or development, tested final product.

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The Solution



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The Benefits



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The Comparison.....



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The Comparison.....



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Costs

- \$20,000 for the review, design, manufacture and implementation.
- The modifications are now available to Kestrel at a cost of \$10,500 per shuttle car.

Transferability

- All Underground Coal Mines that utilise Shuttle Cars.
- Principles involved in reviewing design of machinery applicable to all industries.

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Questions?

Thank you for your attention during our presentation.

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