



Earth Moving Equipment Safety Round Table

Terms of Reference

Vision:

An industry free of fatalities, injuries and occupational illnesses associated with operating and maintaining surface earth moving equipment

Purpose:

Accelerate development and adoption of leading practice designs for earth moving equipment to minimise the risk to Health and Safety through a process of Original Equipment Manufacturers (OEM) and user engagement

Scope:

We will:

- Focus on design of earth moving equipment operating on the surface at mines
- Provide aligned design expectations based on risk
- As member companies, provide resources and funding for EMESRT activities
- Share openly with all interested OEMs and companies in the mining industry
- Listen, consider and value OEM contributions
- Provide information on leading practice to OEMs
- Assist users with achievement of Health, Safety, Environment and Community goals through sharing leading practice

We will not:

- Discuss commercial issues or anything of an antitrust nature
- Share OEM confidential information with other OEMs
- Provide approval for OEM or third party design
- Impose adoption of solutions on member company sites



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2007 Activities:

Design Philosophy Information

EMESRT will develop and make available Design Philosophy information to equipment manufacturers in selected topic areas. The intent of a Design Philosophy is to provide information to help the OEM design equipment with risks reduced to an acceptable level. The following list of 15 topics was identified. The topics noted in *italics* will be completed in 2007.

- 1. Access & Egress**
- 2. Working at Heights**
3. Noise
- 4. Vibration**
5. Fire
6. Dust
- 7. Isolation**
- 8. Visibility/ collision detection**
9. Machine stability / slope indication
10. Guarding
11. Displays, controls, including labelling
- 12. Tyres & Rims**
- 13. Manual materials handling**
14. Work postures
15. Confined space

Design Philosophy “champions” will:

- Gather input on Design Philosophies design requirements for OEMs and sites, and draft a new design image for review
- Establish whether the Design Philosophy information is machine-type specific or general to EME
- Review related ISO standards and document relevant information and gaps
- Gather information on events or incidents related to the relevant Design Philosophies so that accuracy and validity is enhanced

EMERST will:

- Explore the legal status of Design Philosophies and consider result re wording, disclaimer, etc.
- Send out drafts to EMESRT company members for them to distribute internally for input



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- Draft a document explaining "How to Use the Design Philosophies" that will include advisory information on their application in Operability and Maintainability Concept Risk Assessment (O&M CRA)
- Develop an educational CD to introduce EMESRT and the Design Philosophies
- Present at relevant forums and conferences in 2007
- Talk to other influencers (writers/publishers, organisations that "categorise" products, regulators etc.) about EMESRT, press release (later in 2007)
- Monitor OEM success in Design Philosophy and O&M CRA application
- Promote the use of Design Philosophies as part of purchasing specifications to sites

Standards Involvement

In 2007 EMESRT will focus on ISO rather than national standards. They will explore methods to vet the relevant ISO Standards information, optimise ISO Standards publication costs, and add the information to the EMESRT Blackboard and the MIRMgate system (www.mirmgate.com)

Operability & Maintainability Concept Risk Assessment

In 2007, EMESRT will develop and make available a human factors design process "journey" tool designed for OEM self assessment, as well as facilitate provision of operations and maintenance personnel for OEM Operability and Maintainability Concept Risk Assessments.

OEM Design Review

EMESRT will influence member companies to participate in OEM product "safety audits" or design reviews where requested by an OEM.

Other EMESRT Activities

EMESRT will also;

- Channel issues (e.g. park brake light issue) or relevant information (e.g. MCA report) that become apparent to EMESRT to relevant OEMs (a role of Design Philosophy "champions" too)
- Use MIRMgate (www.MIRMgate.com) as a repository for EME lessons learned and leading practice, as well as design MIRMgate output to optimise Design Philosophies
- Seek external research funding for EMESRT projects



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Representation:

Anglo American

Mr Jim Armstrong, Anglo Coal, Brisbane
Mr Steve Hedges, Anglo Coal, Brisbane
Mr Mike Oswell, Anglo Coal, Brisbane
Mr Mitch Jakeman, Anglo Coal, Brisbane

Barrick

Mr Craig Ross, Salt Lake City
Mr Rick Anderson, Salt lake City

BHP Billiton

Mr Paul Davies, Melbourne
Mr Wally Hay, Melbourne
Mr Alan Miskin, Brisbane

Phelps Dodge

Mr Charles Doane, Phoenix
Mr Steve Holmes, Phoenix

Newmont

Mr Mike Byrne, Denver
Mr Scott Rosenthal, Denver
Mr Alan Dockrey, Denver

Rio Tinto

Mr Graham Willetts, Brisbane
Mr Stephen McGowan, Salt Lake City
Mr Martin Hicks, Salt Lake City

Xstrata

Mr Tony Egan, Xstrata Coal, Sydney
Mr Peter Baker, Xstrata Coal, Sydney
Mr Dave Mellows, Xstrata Coal, Sydney
Mr Glen Croft, Xstrata Copper, Mt Isa

Secretary:

Professor Jim Joy
and
Ms. Sue Leveritt,
Minerals Industry Safety and Health Centre,
Sustainable Minerals Institute,
The University Of Queensland



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Notice of Meetings:

Meetings notices will be at least two weeks in advance with materials distributed 5 working days before the meeting.

Minutes:

Minutes will be taken at all meetings noting that there will be no discussion related to competition, pricing or anything of an anti-trust nature.

Email address for enquiries:

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