

Beyond Best Practice

A Case Study of
Magellan Metals

Mine Safe

Conference 2009


Ivernia

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Company Information

- Magellan Metals and Ivernia relationship.
- Magellan project location.
- Small, open cut lead carbonate mine and processing (concentrate) facility.
- Commissioned 2005.
- Export to customers in Asia.
- Product end uses.



Previous Operations

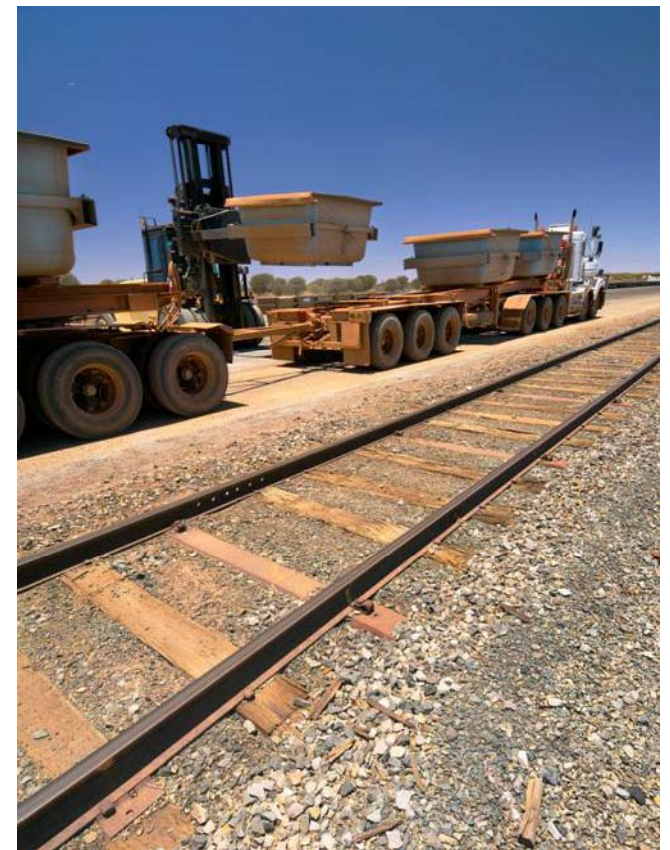
- Initially transported in 'bulk' through the Port of Esperance.



- Lead carbonate concentrate produced and placed in covered kibbles at the mine.
- Kibbles loaded onto trucks at the mine and transported to Leonora.

Previous Operations (cont'd)

- Kibbles loaded onto rail wagons at Leonora.
- Rail wagons transported to the Port of Esperance.



Previous Operations (cont'd)

- Kibbles unloaded from trains at the Port.
- Kibbles emptied at the Port and concentrate stockpiled inside storage shed.
- Concentrate transport to ship via conveyor.



Previous Operations (cont'd)

- Exports of lead concentrate through the Port were suspended in 2007.
- Suspended due to fugitive dust during bulk loading.
- Magellan voluntarily placed its mine on care and maintenance in early 2007.
- Issue of fugitive dust beyond port boundary resulted in a number of studies and reports, including a Parliamentary Inquiry.



The Way Forward

- Improved product stewardship required.
- Product containment.
- A sealed transport method.
- Approved Feb 2009.



New Components

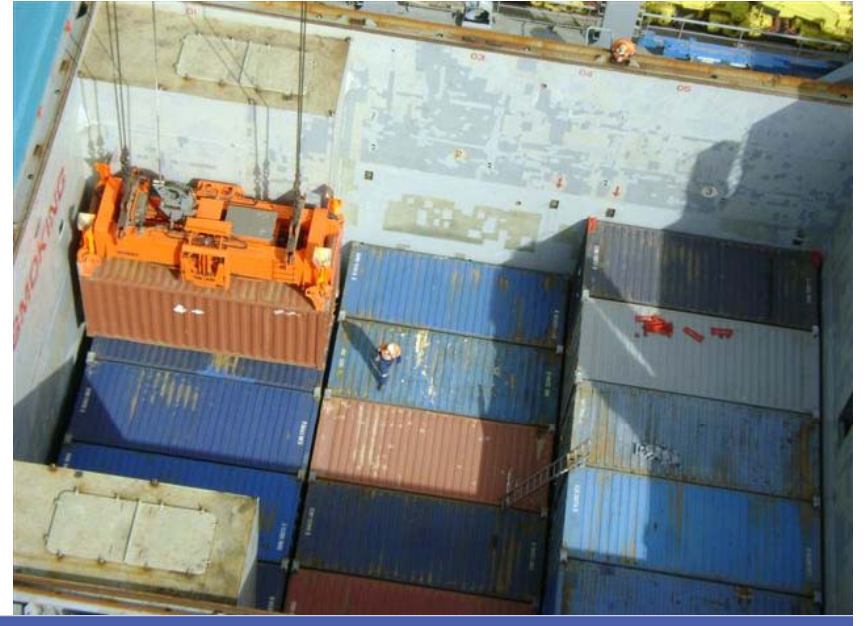
- Lead packaged within approved bags.
- Bags are vacuumed.
- Loaded inside shipping containers.
- Containers locked.
- Containers/trucks washed.
- Containers not opened until overseas.



Tried and Tested



Tried and Tested (cont'd)



Compliance and Reporting

- Independent inspection for every bag and container.
- Independent auditing of entire process.
- Independent reporting to Government.
- Public compliance reporting.
- Performance reviews.
- Compliance reports.
- Community Group liaison.
- New website developed.



Monitoring

- Baseline monitoring along the transport route from mine to Fremantle, and at the Port of Fremantle.
- Operational monitoring of the transport route and at the Port Fremantle.
- Monitoring includes soil, water, benthic sediment, dust deposition and air quality monitoring during container arrival, handling and loading.
- Use of NATA accredited laboratories for all analyses.



Implications for Industry

- WA Government review of all Ports.
- Changes to compliance reporting.
- Increased transparency.
- Improved inspections.
- Shift from open to closed transport.



Achievements

Created and will implement a new worldwide safety standard for the transport of lead, which goes beyond best practice for concentrate transport.

- Avoid re-handling of product.
- No potential for product escape.
- Greater stewardship.
- Improved corporate and social responsibility.

Conclusion

- Accountability and responsibility does not end at the mine gate.
- Need to learn from previous mistakes.
- Transparency and stakeholder engagement important.
- Implications for industry.

Questions?

www.magellanmetals.com.au

