

Case Study.

BEV New Emergent Technology.
North America.
Mining and Metals

Preparing for New and Emergent Technologies



A mining and metals company was constructing a new operation centered around an emergent green technology to reduce emissions during production, but also shorten the time required to start commercial production.

Challenge

But what were the risks? The company had no historical data to draw upon, so it had no visibility into how the new technology might impact on-time procurement delivery and other aspects of the supply chain. Besides potential delay, health and safety risks needed to be identified. Without safety standards or best practices in place, the company needed to understand what new risks this could bring to the operation.

dss+ Approach

A team of top experts in occupational and process safety, electrical safety, and engineering were involved in a multi-path risk assessment that reviewed procurement, operation, maintenance, and engineering protocols and policies. This also reviewed relevant hazard assessment reports and incidents, the company's fatal hazard protocol, emergency response plans, supply chain records, and more.

The dss+ team used facilitation tools and methodologies to first assess potential risks and then offer mitigation strategies for each project phase, starting with procurement. By understanding and assessing the health and safety risks early in the procurement phase, the company could give potential vendors the detailed protocols they required upfront, as opposed to having to update them later due to safety requirement changes.

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Protect. Transform. Sustain.

Once project safety, project, and operations-related risks were adequately estimated, the client was confident to move forward and make a full investment.



Assignment

Estimate and analyze production timeline and health and safety risks related to the use of a new and emergent operational technology.



Offering

Operational Risk Management Consulting



Impact

- Designed critical action plans to mitigate/minimize production timeline, supply chain, and health and safety risks.
- Developed recommendations involving the safest use of the new technology where no standards exist.
- Recommended specific RFP requirements to increase reliability and ensure safe operations once the technology was delivered.

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