

# Portfolio examples: Mining Industry

Selected Scenario mining risk projects



**Scenario's mining risk projects have been conducted over the last decade in various coal and minerals extraction industries, and also in preparation and processing industries. Our experience has been developed with inspectorates in all states, and with equipment designers, particularly those seeking human factors input to specifications and to operability issues.**

- Hunter Valley Mines - Alluvial Mining Risk Review.
- Howick Coal - Completed risk reviews of the design and operations, and preliminary risk review of the programmable control system of an open cut mining shovel.
- Wambo Mining - Completed design and operational risk review of an underground "rapid development" coal mining system.
- Drayton Coal - Facilitated the team-based fault-finding of a control systems failure on an open cut mining shovel.
- Drayton Coal - Facilitated team-based investigation of a critical incident with an electrical drive haulage truck.
- Joy Manufacturing - Prepared safety assessment criteria for the programmable control system of a continuous miner and assessed same for compliance.
- Brimstone Colliery - Risk analysis for planning activities of long wall installation.
- SafetyMAP development (Lilydale quarry and various downstream manufacturing organisations).
- Camberwell Mine - Reclaim tunnel risk analysis during early specification and pre-construction phases, including follow up reviews of operational procedures.
- Wambo Mining - Dragline refit risk analysis, including transport, site installation, initial training and maintenance regime reviews.
- Ellalong Mine - Risk Analysis training, including hazard awareness, team-based risk reviews, and engineering risk assessment.
- Wongawilli Colliery - Risk Analysis of drift winder, including operability studies.
- Elouera Colliery - Risk Analysis training, including investigation skills.
- Tahmoor Colliery - Outburst risk study using limited data, to predict uncertainty levels in new mining regions.
- Tahmoor Colliery - Stage winder risk analysis.
- Tahmoor Colliery - Structure drilling risk analysis.
- Joint Coal Board - Development of risk / ergonomic guideline document.
- Oakdale Colliery - Accident investigation of coal transport winder incident, involving a multi-disciplinary team of regulators, engineers, operator and insurance adjusters.
- Wambo and Gretley Colliery - Accident investigations, including fatality investigation into the high pressure hydraulic failure of an underground roof support.
- Accident Investigation training – various mining operations in the Hunter Valley and in South African coal mines.
- Longwall risk assessment – various longwall assessments, including ventilation and support risk reviews.
- South Bulga Colliery - Risk analysis on roof mounted conveyor structure.
- Hunter Valley Mine - Alluvial Mining risk analysis (flooding risks).
- Tahmoor Colliery - Structure drilling risk analysis.
- Arnot Colliery South Africa - Long wall installation planning exercise.
- East Dreifontein Gold Mine – Roof support installation risk analysis.
- ALARA/MineRisk Johannesburg - Assisted with setup of joint venture mining risk business with SA CSRO.
- South Bulga Colliery - Roof mounted conveyor risk review.