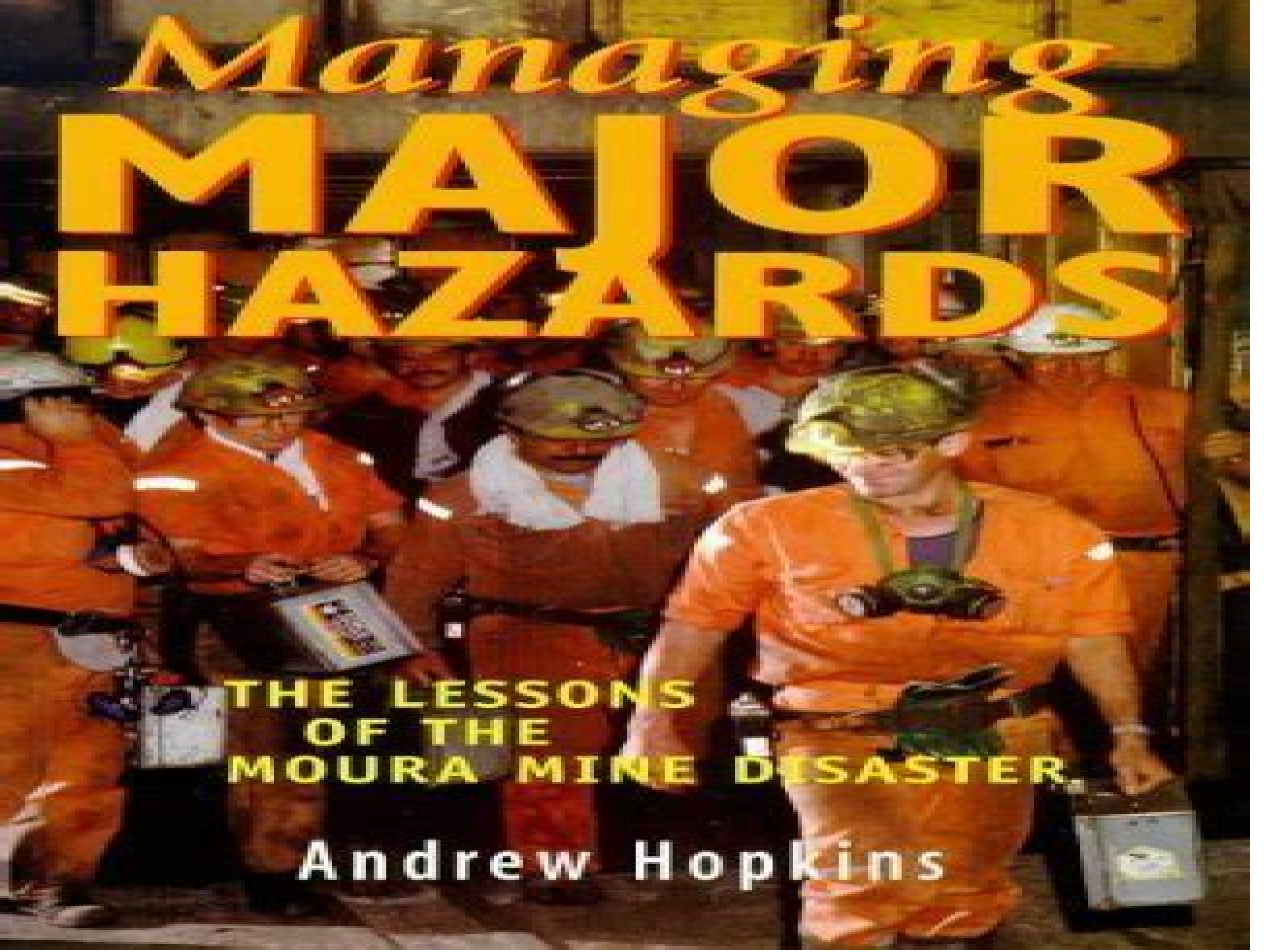




Managing **MAJOR HAZARDS**

**THE LESSONS
OF THE
MOURA MINE DISASTER.**

Andrew Hopkins

Managing Major Hazards The Lebons Of The Moura Mine Disaster

Andrew Hopkins



Managing Major Hazards The Lebons Of The Moura Mine Disaster:

Managing Major Hazards Andrew Hopkins, 2020-07-16 Many organisations live with hazards that have the potential to cause disaster This was the case at Moura underground coal mine in Central Queensland where 11 men died in an explosion in 1994 Andrew Hopkins shows that the explosion was the result of organisational failure and uses it to draw lessons about managing major hazards He argues that there are always tell tale signs of impending disaster and that organisations need to find ways of gathering this information and reacting to it appropriately The Moura story also demonstrates the need to move responsibility for risk management up the corporate hierarchy to ensure that it is not overshadowed by production pressures Otherwise disasters will repeat themselves in horrifyingly similar ways *Managing Major Hazards* is a gripping story and essential reading for occupational health and safety professionals executives working in hazardous industries policy makers and readers interested in risk management and disaster studies

Review of Evidence in the Moura Mine Disaster 16 July 1986 S. Leivesley, 1988 Death Underground , 1996-01-01 Managing Major Hazards in Mining , 2005

Anatomy of a disaster - the explosion at Moura No 2 coal mine, Australia F.F. Roxborough, 1997 The Application of Major Hazard Risk Assessment (Mhra) to Eliminate Multiple Fatality Occurrences in the U.S. Minerals Industry Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute Safety and Health, 2013-10 Major Hazard Risk Assessment MHRA is used to help prevent major hazards e g fire explosion wind blast outbursts spontaneous combustion roof instability and chemical and hazardous substances etc from injuring miners The structured process associated with MHRA helps to characterize the major hazards and evaluate engineering management and work process factors that impact how a mine mitigates its highest risk The National Institute for Occupational Safety and Health NIOSH studied the application of this technique to US mining conditions through a field oriented pilot project Risk assessment teams used in the pilot project were primarily composed of mining company personnel Ten case studies were performed over a wide cross section of mines These mines were representative of the important mining commodities in the US minerals industry i e coal metal non metal and aggregate Also the sizes of the mines ranged from small to large and were located across the country The ten case studies demonstrate that most US mines have the capability to successfully implement an MHRA and that the MHRA methodology produced additional prevention controls and recovery measures to lessen the risk associated with a select population of major mining hazards The basic ingredient for a successful MHRA is the desire to become more proactive in dealing with the risks associated with events that can cause multiple fatalities A successful outcome is marked by a thorough examination of existing prevention controls and recovery measures When pressed to consider more controls to further mitigate the risk a well staffed risk assessment team was able to identify additional controls For these mining operations it was important to add additional controls even if they were not required by existing mining regulations to lower the risks associated with the major hazards under consideration If a mining operation is

not willing to commit its best people to an MHRA or will not provide them with sufficient time to see the process through to its conclusion the MHRA output may prove to be useless Additionally if a mining operation is not prepared to discuss its major hazards in an open and honest fashion and to present the findings of the risk assessment in a written report the MHRA output will be unclear and attempts to monitor or audit important controls may not be possible A MHRA is most effective when the mining operation possesses 1 a proper understanding of its hazards 2 experience with informal and basic formal risk assessment techniques 3 proper facilities machinery and equipment 4 suitable systems and procedures that represent industry Best Practice 5 appropriate organizational support with adequate staff communications and training 6 a formal and thorough plan for emergency response and 7 a safety risk management approach that is promoted and supported at all levels of the organization

REPORT OF THE ROYAL COMMISSION RE BEBAN MINE DISASTER. ,1937 *The Application of Major Hazard Risk Assessment (MHRA) to Eliminate Multiple Fatality Occurrences in the U.S. Minerals Industry* Anthony T. Iannacchione,T. M. Brady,F. Varley,2008 Major Hazard Risk Assessment MHRA is used to help prevent major hazards e g fire explosion wind blast outbursts spontaneous combustion roof instability and chemical and hazardous substances etc from injuring miners The structured process associated with MHRA helps to characterize the major hazards and evaluate engineering management and work process factors that impact how a mine mitigates its highest risk The National Institute for Occupational Safety and Health NIOSH studied the application of this technique to US mining conditions through a field oriented pilot project Risk assessment teams used in the pilot project were primarily composed of mining company personnel Ten case studies were performed over a wide cross section of mines These mines were representative of the important mining commodities in the US minerals industry i e coal metal non metal and aggregate Also the sizes of the mines ranged from small to large and were located across the country The ten case studies demonstrate that most US mines have the capability to successfully implement an MHRA and that the MHRA methodology produced additional prevention controls and recovery measures to lessen the risk associated with a select population of major mining hazards The basic ingredient for a successful MHRA is the desire to become more proactive in dealing with the risks associated with events that can cause multiple fatalities A successful outcome is marked by a thorough examination of existing prevention controls and recovery measures When pressed to consider more controls to further mitigate the risk a well staffed risk assessment team was able to identify additional controls For these mining operations it was important to add additional controls even if they were not required by existing mining regulations to lower the risks associated with the major hazards under consideration If a mining operation is not willing to commit its best people to an MHRA or will not provide them with sufficient time to see the process through to its conclusion the MHRA output may prove to be useless Additionally if a mining operation is not prepared to discuss its major hazards in an open and honest fashion and to present the findings of the risk assessment in a written report the MHRA output will be unclear and attempts to monitor or audit important controls may not

be possible A MHRA is most effective when the mining operation possesses 1 a proper understanding of its hazards 2 experience with informal and basic formal risk assessment techniques 3 proper facilities machinery and equipment 4 suitable systems and procedures that represent industry Best Practice 5 appropriate organizational support with adequate staff communications and training 6 a formal and thorough plan for emergency response and 7 a safety risk management approach that is promoted and supported at all levels of the organization NIOSHTIC 2 Improving Self-Escape from Underground Coal Mines National Research Council, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Committee on Mine Safety: Essential Components of Self-Escape, 2013-06-26 Coal mine disasters in the United States are relatively rare events many of the roughly 50 000 miners underground will never have to evacuate a mine in an emergency during their careers However for those that do the consequences have the potential to be devastating U S mine safety practices have received increased attention in recent years because of the highly publicized coal mine disasters in 2006 and 2010 Investigations have centered on understanding both how to prevent or mitigate emergencies and what capabilities are needed by miners to self escape to a place of safety successfully This report focuses on the latter the preparations for self escape In the wake of 2006 disasters the U S Congress passed the Mine Improvement and New Emergency Response Act of 2006 MINER Act which was designed to strengthen existing mine safety regulations and set forth new measures aimed at improving accident preparedness and emergency response in underground coal mines Since that time the efforts of the National Institute of Occupational Safety and Health NIOSH and the Mine Safety and Health Administration MSHA have contributed to safety improvements in the mining industry However the Upper Big Branch mine explosion in 2010 served as a reminder to remain ever vigilant on improving the prevention of mine disasters and preparations to help miners survive in the event of emergencies This study was set in the context of human systems integration HSI a systems approach that examines the interaction of people tasks and equipment and technology in the pursuit of a goal It recognizes this interaction occurs within and is influenced by the broader environmental context A key premise of human systems integration is that much important information is lost when the various tasks within a system are considered individually or in isolation rather than in interaction with the whole system Improving Self Escape from Underground Coal Mines the task of self escape is part of the mine safety system

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