

Mining Blast Plan Review Checklist

Blast Plan Overview & Objectives

Review the overall blast plan goals, objectives, and scope of work.

Project Name	
Write something	
Blast Plan Purpose & Scope	
Write something	
Block Number/Sequence	
Enter a number	
Date of Plan Creation	
Enter date	

Plan Type (Production/Development/Rescue)	
Production	
Development	
Rescue	
Brief Summary of Blast Objectives	
Write something	
Geotechnical Data & Site Conditions Verify accuracy and completeness of geotechnical data, including rock type, fault ocations, and groundwater conditions.	
Summary of Geological Report	
Write something	
Rock Unit Dip Angle (degrees)	
Enter a number	,
Tablet On a day (vantage)	
Joint Spacing (meters)	
Enter a number	

Dominant Rock Type Granite Sandstone Limestone Shale Basalt Other
Geotechnical Survey Maps L Upload File
Date of Last Geotechnical Survey Enter date
Description of Observed Faults/Fractures
Write something
Blast Design Parameters Assess the appropriateness of burden, spacing, and delay sequences based on site conditions and rock mechanics.
Burden (meters) Enter a number

Enter a number Maximum Hole Depth (meters) Enter a number Hole Angle (degrees) -30 -20 -15 -10 0 Delay Sequence (milliseconds) Enter a number Firing Pattern Staggered Square Linear Stemming Thickness (meters) Enter a number	Spacing (meters)	
Hole Angle (degrees) -30 -20 -15 -10 0 Delay Sequence (milliseconds) Enter a number Firing Pattern	Enter a number	
Hole Angle (degrees) -30 -20 -15 -10 0 Delay Sequence (milliseconds) Enter a number Firing Pattern	Maximum Hole Depth (meters)	
□ -30 □ -20 □ -15 □ -10 □ 0 Delay Sequence (milliseconds) Enter a number Firing Pattern □ Staggered □ Square □ Linear Stemming Thickness (meters)	Enter a number	
-20 -15 -10 0 Delay Sequence (milliseconds) Enter a number Firing Pattern Staggered Square Linear Stemming Thickness (meters)	Hole Angle (degrees)	
-15 -10 -0 Delay Sequence (milliseconds) Enter a number Firing Pattern Staggered Square Linear Stemming Thickness (meters)	_	
Delay Sequence (milliseconds) Enter a number Firing Pattern Staggered Square Linear Stemming Thickness (meters)		
Delay Sequence (milliseconds) Enter a number Firing Pattern Staggered Square Linear Stemming Thickness (meters)		
Firing Pattern Staggered Square Linear Stemming Thickness (meters)		
Firing Pattern Staggered Square Linear Stemming Thickness (meters)		
Firing Pattern Staggered Square Linear Stemming Thickness (meters)	Delay Sequence (milliseconds)	
Staggered Square Linear Stemming Thickness (meters)	Enter a number	
Staggered Square Linear Stemming Thickness (meters)		
Staggered Square Linear Stemming Thickness (meters)	Firing Pattern	
Linear Stemming Thickness (meters)		
Stemming Thickness (meters)	Square	
	Linear	
	Stemming Thickness (meters)	

Drilling & Fragmentation

fragmentation is achievable.	
Hole Depth (meters)	
Enter a number	
Hole Diameter (mm)	
Enter a number	
Hole Angle (degrees)	
Enter a number	
Drilling Pattern Type	
Straight	
Staggered	
☐ Fan	
Drilling Method Description	
Write something	
Duill Dette up Diegus	
Drill Pattern Diagram	
□ Upload File	

Evaluate the drilling plan, hole depth, angle, and diameter, ensuring adequate

Enter a number	
Fragmentation Control Measures	
Optimized Burden	
Explosive Type Selection	
Delay Sequencing	
Pre-splitting	
nfirm appropriate explosive type, dens	calculation sity, and total explosive charge calculations.
Total Explosive Mass (kg)	
Total Explosive Mass (kg) Enter a number	
Total Explosive Mass (kg) Enter a number	
Total Explosive Mass (kg) Enter a number Explosive Density (kg/m³) Enter a number	
Total Explosive Mass (kg) Enter a number Explosive Density (kg/m³) Enter a number	
Total Explosive Mass (kg) Enter a number Explosive Density (kg/m³) Enter a number Type of Explosive Used	
Total Explosive Mass (kg) Enter a number Explosive Density (kg/m³) Enter a number Type of Explosive Used Ammonium Nitrate Fuel Oil (ANFO)	

Write something	
Average Hole Diameter (mm)	
Enter a number	
Average Burden (m)	
Enter a number	
Explosives Cost per kg (AUD)	
Enter a number	
equence and Timing	
	ık.
view the blasting sequence and timing for minimizing vibration and backbrea	ık.
view the blasting sequence and timing for minimizing vibration and backbrea	ık.
view the blasting sequence and timing for minimizing vibration and backbrea Delay Time (Seconds) - First Hole	ık.
equence and Timing view the blasting sequence and timing for minimizing vibration and backbrea Delay Time (Seconds) - First Hole Enter a number Delay Time (Seconds) - Subsequent Holes	ık.

Enter a number	
Delay Type	
☐ Electronic Detonation	
Fuse Detonation	
Other (Specify)	
Justification for Delay Sequence	
Write something	
Burden and Spacing Methodology	
Standard Practice	
Geotechnical Analysis	
Previous Blast Data	
Date of Sequence Calculation Review	
Enter date	

Ground Control and Stability

Assess potential impacts on ground stability and control measures required.

ogical Strength Index (GSI) Value er a number	
er a number	
ting Ground Support System	
one	
ock Bolts	
notcrete	
able Bolts	
esh	
reel Sets	
cription of Existing Ground Conditions	
e something	
ntial Instability Features Observed	
pinting	
aulting	
nearing	
welling	
ater Inflow	
ocky Failure	

Write something	
Ground Stability Risk Level	
Low	
Moderate	
High	
	tigation and airblast impacts on surrounding areas.
aluate strategies to minimize vibration	and airblast impacts on surrounding areas.
Peak Particle Velocity (PPV) Limit (and airblast impacts on surrounding areas.
Peak Particle Velocity (PPV) Limit (Peak Particle Velocity (PPV) Limit (PPV) L	and airblast impacts on surrounding areas.
Peak Particle Velocity (PPV) Limit (I	and airblast impacts on surrounding areas.
Peak Particle Velocity (PPV) Limit (Internal number Airblast Overpressure Limit (dB) Enter a number	and airblast impacts on surrounding areas. m/s)
Peak Particle Velocity (PPV) Limit (Inter a number Enter a number Airblast Overpressure Limit (dB)	and airblast impacts on surrounding areas. m/s)

Mitigation Techniques Implemented (select all that apply)
Reduced Charge
Delay Sequencing
Burden Adjustment
☐ Smooth Boreholes
Pre-splitting
Other
Description of 'Other' Mitigation Techniques (if selected) Write something
Date of Vibration/Airblast Monitoring Plan Review
Enter date
Upload Vibration Monitoring Plan
Environmental Considerations Verify adherence to environmental regulations and mitigation plans regarding dust, noise,
and water quality.
Predicted Dust Emission (mg/m³)
Enter a number

Predicted Noise Level (dB)
Enter a number
Proximity to Water Sources?
Yes
□ No
Adjacent
Description of Water Management Plan
Description of Water Management Plan
Write something
Applicable Environmental Regulations
Clean Air Act
Clean Water Act
Endangered Species Act
Local Noise Ordinances
Date of Last Environmental Impact Assessment
Enter date
Environmental Monitoring Plan Document
♣ Upload File

Regulatory Compliance & Approvals

Confirm all necessary permits, licenses, and regulatory approvals are secured.
Permit Number
Write something
Permit Description
Write something
Permit Issue Date
Enter date
Permit Expiration Date Enter date
Regulatory Body Mines and Resources Department Environmental Protection Agency
Local Government Authority
Copy of Permit Document
♣ Upload File

Permit Status Active Pending Expired
Risk Assessment & Mitigation
dentify potential hazards and review mitigation measures outlined in the plan.
Describe potential blast-related hazards identified. Write something
Detail existing mitigation measures for each hazard. Write something
Estimated Vibration Intensity (Peak Particle Velocity) Enter a number
Estimated Airblast Overpressure Enter a number

Negligible	Potential Impact (if Hazard Occurs)
Minor	
☐ Moderate	
 Major Catastroph	ic
Catastroph	
Likelihood c	of Occurrence
Rare	
Unlikely	
Possible	
Likely	
Almost Cer	rtain
	Documentation (e.g., Vibration Monitoring Plan)
Supporting ⚠ Upload F	
♣ Upload F	
♣ Upload F Ompete	File
Upload Formula Competer Compet	ency & Training
Upload Formula Competer Compet	ency & Training etency and training of personnel involved in the blasting operation.
Upload Formula Competer Cert	ency & Training etency and training of personnel involved in the blasting operation. ification Status
♣ Upload F Compete rify the comp Blaster Cert ☐ Certified	ency & Training etency and training of personnel involved in the blasting operation. ification Status
Upload F Ompete rify the comp Blaster Cert Certified Provisional Uncertified	ency & Training etency and training of personnel involved in the blasting operation. ification Status
Upload F Ompete rify the comp Blaster Cert Certified Provisional Uncertified	ency & Training etency and training of personnel involved in the blasting operation. ification Status

Years of Blasting Experience	
Enter a number)
Completion of Blast Plan Review Training?	
Yes	
□No	
Date of Last Refresher Training	
Enter date)
Enter date	/
Enter date	<i></i>
Enter date	<i></i>
Details of any relevant experience or specialized training	_
)
Details of any relevant experience or specialized training	