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Significant Risk Assessment – Surface Blasting Policy



Potentially Fatal Risk	Critical Controls to Reduce or Eliminate
Electrical Storm	Lightning Detection System
	Removal of personnel per the DSST Policy
	Communication System (radios)
	Critical Behaviors – Disregard of the alerts
No Blockers in Place	Unauthorized access to blast site
	Critical Behaviors – Disregard of Blockers and signage
No Blast Warning/Notification	Communication System (radios)
	Adherence to procedure
	Zero Tolerance Policy
	Critical Behaviors – Adherence to procedure, Follow-through from personnel if no warning
Sparking Device in Unauthorized Area	Restricted Area (Area is locked)
	No Smoking Area

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	Critical Behaviors – No access by unauthorized personnel, explosives removed from magazine, no personnel smoking or using cell phones
Misfire	Restricted access
	BSST Policy requiring spotters
	BSST Policy blocking access to a misfire area
	Possible misfires are marked on CASE
	SOPs for Misfires
	Critical Behaviors -
Incorrect loading/stemming resulting in fly rock issues	Loading according to Plan
	Supervision on pattern
	Pre-loading inspection of blasting
	Critical Behaviors – Adhering to the plan, auditing stemming height, proper timing

Red Flags – Indicate potential unsafe behavior or lack of controls	
Access not marked	
Blast site is not coned off	
Lack of training by blasting personnel	
Lack of Supervision	
No pre-inspection reports	
Field inventory sheets for accessories not filled out or incomplete	
No organization on the pattern	
No berms around the pattern	
Free access to pattern	
No pre-blast meeting documentation	
No clearance map	
Blocking positions not designated or marked	
Non-exempt employee acting as the Responsible FCX Employee	
No communication of blast	
Improper procedure observed with the dongle	

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