



VUL-SWP-116 (h,i)-Disposal of Recovered Boosters and Detonators

SAFE WORK PROCEDURE (SWP)			
Description	Disposal of Recovered Boosters and Detonators		
Site	Vulcan Mine		
Department	Operations (Drill and Blast)		
PPE Required		Job Hazard Analysis Reference	
		JHA 30/08/2025 Disposing of Recovered Boosters and Detonators.	
VUL SOP / PRO Reference VUL_SOP_76 Using Mobile Plant VUL_SOP_94 Check, Examine & Restrict Work Area VUL-SOP-116-(h,i) Dealing with and recording of Misfires VUL-SOP-116(abcdef) Transport and Storage of Explosives VUL-SOP-116-(g)Charging and Firing Explosives VUL-SWP-007 - Firing of Blasts with additional controls concerning Public Road and Rail in exclusion zone. VUL-SOP-096b-Manual Handling Tasks & Ergonomics		Other Relevant Information	
		☐ Survey data for drill hole location	
		☐ OCE Report	
		☐ VUL-TAR-003-Geotechnical Failure	
		☐ VUL-TAR-004-Weather	
		☐ VUL-TAR-005-Lightning	
People, Equipment, Materials and Tools Required			
People	Equipment	Materials	Tools
Shotfirer	Explosives Vehicles	1,000 litre IBC Pod	
Open Cut Examiner	Water Truck	Boosters and Detonators	
Production Supervisor			
Blast Guards			
Water Truck Operator			

1. Area Inspection

- 1.1 Area to be inspected to determine actions to take to secure access to blast area
- 1.2 Consult OCE/Geotechnical personnel regarding new or identified geotechnical issues.
- 1.3 Consult Production Supervisor regarding the proximity of any mining operations within 50m of Blast Location.

2. General

- 2.1 Conduct a Take 5 as a minimum prior to undertaking any work.
- 2.2 Requirements of *VUL-TAR-003-Geotechnical Failure* must be complied with.
- 2.3 Requirements of *VUL-TAR-004-Weather* must be complied with.
- 2.4 Requirements of *VUL-TAR-005-Lightning* must be complied with.
- 2.5 This task shall be conducted during the hours of daylight only.
- 2.6 The Appointed Shotfirer shall oversee all activities regarding the Transport, Handling and Use of Explosives. *VUL-SOP-116 (abcdef) Transport and Storage of Explosives*.
- 2.7 Equipment and Vehicles must be parked in a suitable location as per *VUL-SOP-076-Using mobile plant*.
- 2.8 Emergency access must always be available during this operation, and the operation must cease if there is an unacceptable risk from hazards e.g., Geotechnical, excessive noise and dust exposure.



3. Prepare area for Blasting

- 3.1 Before commencing, and periodically during this operation, CMW's must assess the work area for geotechnical hazards (loose and overhanging material, bench stability, boggy and wet conditions etc.)
- 3.2 Cleanup and preparation of the area shall be done with the involvement of the Production Supervisor and under the direction of the Shotfirer.
- 3.3 Open edges must be bunded to a standard equal to or better than those prescribed by the SOP applicable to the work area.
- 3.4 Access to the area shall be controlled by placing Sentries and/or installing hard barriers.
- 3.5 A Blast Firing Notification shall be issued by the Senior Drill and Blast Engineer prior to blasting.
- 3.6 Deliver a 1,000 litre IBC Pod to the Blast Area and fill with water.
- 3.7 Ensure positive communication is maintained when there is Interaction between moving machinery and Pedestrians. 50m separation shall be maintained.



4. Prepare and Fire Recovered Boosters and Detonators.

- 4.1 All Explosives shall be transported in accordance with *VUL-SOP-116 (abcdef) Transport and Storage of Explosives.*
- 4.2 All Explosives shall be handled in accordance with *VUL-SOP-116(g) Charging and Firing Explosives.*
- 4.3 New primed Boosters shall be taped to the misfired Boosters and Detonators prior to being placed inside the IBC Pod.
- 4.4 The prepared Primer Package shall then be placed into the IBC Pod of water and shall be safely secured.
- 4.5 Blast Guards shall be placed according to the Blast Firing Notification.
- 4.6 Machinery and Personnel Exclusion Zones shall be swept in accordance with *VUL-SOP-116 (g) Charging and Firing Explosives.*
- 4.7 Positive Communication shall be made with neighboring Properties if there is a likelihood of the blast having any impact on them. *VUL-SWP-007 Firing of Blasts with additional controls concerning Public Road and Rail in Exclusion Zone.*
- 4.8 Shotfirer shall attach the Firing Line, retreat to the Firing Point and Fire the Blast in accordance with *VUL-SOP-116-(g) Charging and Firing Explosives.*



5. Post Blast Inspection.

- 5.1 After firing the blast, the Shotfirer shall conduct a Post Blast Inspection in accordance with *VUL-SOP-116-(g) Charging and Firing Explosives.*
- 5.2 If there is no evidence of any further misfire after the blast, The Shotfirer shall give the All Clear and hand the area back to the Production Supervisor.
- 5.3 If there is evidence of misfired explosives, the Shotfirer shall follow the requirements of *VUL-SOP-116-(h,i) Dealing with and recording of Misfires.*
- 5.4 All debris resulting from the blast shall be cleaned away, using suitable machinery, prior to mining operations re-commencing in the area.

