



VULCAN MINE

Trigger Action Response Plan

Post Blast Fumes

Document Number:

VUL-TAR-001-Post Blast Fumes

Document Owner:

Tech Services

Approval Date:

04 / 01 / 2026

VULCAN MINE



Conditions / Positions	Normal State (Low)	Level 1 Response (Moderate)	Level 2 Response (High)	Level 3 Response (Very High)
Trigger / Conditions	Blast Initiated – No recognised fume event evident and is inside the exclusion zone.	Blast Initiated – Fume event evident but is contained within the fume exclusion zone wedge.	Blast Initiated – Fume event evident and has breached fume exclusion zone / Guards fallen back (No exposure to NOx).	Blast Initiated – Fume event evident - Fume has breached exclusion zone had has or has potential to expose personnel.
Blast Controller	Ensure dust is controlled before giving the shot the “All Clear” and passing control of area back to operations.	- Ensure you are in a position to monitor dust and fume direction. - Notify the Shot Firer / Blast supervisor if fume event is a level 3 rank or above and breaches exclusion zone.	- Continue to monitor progress and update all with regular communication. - Be prepared to assist guards to move back to fall-back positions if required. - Notify the Shotfirer / Blast supervisor of the reportable fume event. - Ensure rail control and neighbours are notified if they are impacted.	- Ensure call is made to all affected personnel to take precautions eg Move in doors, windows closed, turn air-con to recycle. - If fume is travelling offsite, continue to monitor ranking and direction and record details. - Review location of public ie traffic being controlled and consider action required to move. - Make Emergency call and follow emergency procedures. - Liaise with OCE and ERT - Ensure rail control and neighbours are notified if they are impacted.
Shot Firer / Blast Supervisor	Ensure all blast records are completed.	Initiate a fume event notification if event is Level 3 or above and breaches the Blast exclusion zone.	- Notify Operations Manager & SSE of the reportable fume event. - Ensure all required fume event records are completed.	- Follow Emergency procedures and liaise with OCE and ERT. - Notify Operations Manager & SSE of the reportable fume event. - Ensure all required fume event records are completed. - Plan to provide required help to aid in response.
OCE	Ensure CMW's are briefed on the planned blast eg Prestart meetings and OCE report.	Monitor radio and ensure preparedness to respond if situation escalates	Monitor radio and ensure preparedness to respond if situation escalates	- Coordinate ERT response to location if Emergency called. - Secure the emergency site - Help arrange for transport of affected personnel for treatment. - Coordinate assistance in emergency situations.
All other supervisors	Ensure your CMW's are briefed on planned blast e.g. Pre-start Meeting.	Ensure you know your employees whereabouts at the blast time.	Ensure you know your employees whereabouts at the blast time.	- Ensure you know your employees whereabouts at the blast time. - Monitor radio channel and be prepared to supply assistance in the emergency situation



Conditions / Positions	Normal State (Low)	Level 1 Response (Moderate)	Level 2 Response (High)	Level 3 Response (Very High)
Blast Guards	Hold your Blast Guard position until the all clear has been given by the Blast Controller.	- Ensure your guard position is clearly understood and a pre-determined retreat plan is in place. - If in doubt ask the Blast Controller to repeat the instructions. - Understand if fume cloud is moving toward you and you do not have time to move safely, ensure the windows are up and air-conditioning and fan is off or on recycle.	- Monitor radio channel during blast. - Follow the Blast controller direction. - Leave vehicle running and windows up at all times. - Monitor dust cloud and fume event position and distance to your location. - Communicate to Blast Controller if you feel that your position may be close to the fume cloud and need to fall back.	- Follow Emergency Response Procedures - Ensure you hold your Blast Guard position until the all clear has been given by the Blast Controller unless you are required to utilise your pre-determined retreat plan. - Monitor dust cloud and fume event position and distance to your location. - Understand if fume event is moving towards you and you do not have time to move safely, ensure the windows are up and air-conditioning/fan is off or ensure on recycle. - Be aware of emergency vehicles in your area.
Blast Sweepers	- Remain on standby outside guard positions and monitor radio. - Be prepared to provide assistance to the blast controller if called upon.	- Remain on standby outside guard positions and monitor radio. - Be prepared to provide assistance to the blast controller if called upon.	- Remain on standby outside guard positions and monitor radio. - Be prepared to provide assistance to the blast controller if called upon.	- Follow Emergency Response Procedures - Monitor radio channel and be prepared to supply assistance in the emergency situation
Coal Mine Worker	- At pre-start ensure any blast details are clearly understood, if not ask your supervisor. - Maintain radio silence until all clear is given by the blast controller.	- At pre-start ensure any blast details are clearly understood, if not ask your supervisor. - Maintain radio silence until all clear is given by the blast controller.	- At pre-start ensure any blast details are clearly understood, if not ask your supervisor. - Maintain radio silence until all clear is given by the blast controller. - Monitor the radio channel during the blast. - Follow directions from your Supervisor, Blast Controller or Blast Guard.	- Follow Emergency Response Procedures. - If blast fume or dust is heading in your direction, contact the Blast Controller and follow their directions, to relocate to a specified safe location or retreat if possible. If this is not possible take shelter in a safe location from blast fume in a sealed cab or crib room with the windows up and air-conditioning/fan off or on recycle.
ERT	Ensure all ERT personnel are briefed on planned blast e.g. Pre-start Meeting.	Monitor Radio channel for any changes in Blast conditions.	Monitor radio channel for any changes in Blast conditions.	- Follow Emergency Response Procedures. - Prepare to treat personnel onsite if exposed to NOx Blast fume.



Typical Vulcan Mine projected blast fume map

