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# McArthur River Mining Pty Ltd

## Emergency Response Plan



A GLENCORE COMPANY



## Table of Contents

1.0	Introduction.....	4
2.0	Scope.....	4
3.0	Definitions .....	4
4.0	Emergency Scenarios .....	5
5.0	Emergency Command and Control.....	6
6.0	Emergency Initiation.....	8
7.0	Emergency Duties – Mill Control.....	8
8.0	Scene Controller.....	9
8.1	Emergency Duties – Scene Controller.....	10
8.2	Scene Controllers Pelican Case .....	10
9.0	Emergency Response Coordinator .....	11
10.0	Emergency Response Team .....	12
11.0	Paramedic/Nurse.....	13
12.0	Evacuation Sirens .....	13
13.0	Fire and Evacuation .....	13
13.1	General Fire.....	13
13.2	LPG Leak or Fire .....	15
13.3	Tyre Fire .....	15
13.4	Conveyor Belt Fire .....	19
14.0	Concentrate Haul Truck Fire .....	19
15.0	Fire on a Surrounding Cattle Stations .....	20
16.0	Gas Pipeline Fire .....	20
17.0	Tailing Storage Facility .....	20
18.0	Accommodation (Village Fire) .....	21
19.0	Ammonium Nitrate Storage Shed Fire.....	21
20.0	Explosives Truck Fire.....	22
21.0	MIBC Tank Fire (Methyl Isobutyl Carbinol) .....	23
22.0	Xanthate .....	24
23.0	Waste Discharge with potential to cause Serious Environmental Harm .....	24
24.0	Other Emergency Incidents may include: .....	25
25.0	Evacuation Locations: refer to: .....	26
26.0	C.M.T. Control Room.....	26

27.0	Fatalities .....	26
28.0	Media.....	26
29.0	Recovery .....	27
30.0	Responsibilities .....	28
31.0	References.....	29
32.0	Maps / Plans .....	30

## 1.0 Introduction

The McArthur River Mine (MRM) Emergency Response Plan provides employees, contractors and visitors with the procedures to follow in the event of any emergency situation. It is of the highest importance that everyone involved in an emergency is aware of the correct procedure to be followed, their duties and their responsibilities.

The MRM emergency response plan should be followed in all emergency situations. When an incident occurs that may threaten personnel or the environment on or off site this plan should be followed to ensure that all personnel are safe and accounted for.

The MRM Emergency Response Plan shall be read and utilised in conjunction with the MRM Emergency Response Management Manual and the MRM Emergency Response Manual Part 2 – Duty Cards and approved forms used to record events.

## 2.0 Scope

This plan applies to McArthur River Mine Operations including Mining Operations, Metallurgical Operations, Ore Transport, the Bing Bong Bulk Loading Facility, the MRM aerodrome and aircraft, Contractors and all personnel working at any MRM operational area.

## 3.0 Definitions

Definition	Description
<b>Shall</b>	This is mandatory
<b>Should</b>	This is a recommendation
<b>MRM</b>	McArthur River Mine
<b>BBBLF</b>	Bing Bong Bulk Loading facility
<b>Incident</b>	An incident is an unplanned or unwanted event that has or could have resulted in harm to people, environment, equipment or the community.
<b>Emergency</b>	An uncontrolled incident requiring immediate emergency response to protect people, assets and the environment.
<b>SC</b>	Scene Controller

<b>ERT</b>	Emergency Response Team
<b>ERC</b>	Emergency Response Coordinator
<b>IMT</b>	Incident Management Team
<b>DMO</b>	District Medical Officer
<b>SCBA</b>	Self-Contained Breathing Apparatus
<b>LPG</b>	Liquid Petroleum gas
<b>MDS</b>	Material data Sheet
<b>ESP</b>	Environment Safety and People

## 4.0 Emergency Scenarios

Emergencies include, but are not limited to the following:

- a) Fires
- b) Floods
- c) Chemical spills or incident
- d) Fume, vapour, gas or radiation leaks
- e) Chemical incident
- f) Explosions
- g) Aircraft incident
- h) Plant equipment or vehicle incident
- i) Ocean or river incidents
- j) Electrical incident
- k) Serious Injury or fatality
- l) Bomb / Terrorist threat
- m) Unauthorised entry

- n) Explosives incident
- o) Tyre explosion
- p) Fall from heights
- q) Cyclone or catastrophic weather event
- r) Highwall & Void failure or Tailing Loss
- s) Waste discharge with the potential to cause material serious environmental harm

### 5.0 Emergency Command and Control

The Australian Fire and Emergency Services Authorities Council (AFAC) has developed version 4 of the Australasian Inter-service Incident Management System (AIIMS4). This provides the basis for the MRM Emergency Response Plan and the MRM Emergency Response Management Manuals. These plans provide for interoperability between an Operation and any external emergency service agency, if needed. It also delivers a structured, scalable and flexible emergency management approach.

The Australian Fire and Emergency Services Authorities Council's AIIMS4 system provides a standardised *Incident Command and Control System* (ICCS). It enables the integration of resources and activities from multiple agencies when responding to and resolving an incident.

All Northern Territory Emergency Service agencies use *Incident Command and Control Systems*. These agencies, which include Police Forces, Ambulance Services, Fire and Rescue Services, and Rural Fire Services (or equivalents), may be involved in an emergency response to MRM.

This structure allows the flexibility to grow with the size and complexity of any incident. During the first response to an incident, a *Scene Controller* will perform the basic function of control. If the incident intensifies and incident management becomes more demanding, a *Scene Controller* will take control. They may delegate some or all support functions.

The ICCS allows for ease of transition at any stage. From a single *Scene Controller*, to a *Scene Controller* with an *Incident Management Team*, through to a *Crisis Management Team* support structure.

#### Note



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*Control of an incident always remains with the Scene Controller (Level 1 Incidents) or the Scene Controller (Level 2 and 3 Incidents). Incident control is not transferred off-site.*

The MRM ICCS provides structure and the ability to delegate to perform all management and information functions. The MRM ICCS structure includes up to four functional sections reporting to the *Scene Controller*, as shown in *Error! Reference source not found..* The functional sections include:

- a) Incident Control Section (includes the initial *Scene Controller*).
- b) Operations Section (includes an internal investigation component).
- c) Logistics (includes Finance).

d) Planning (includes an intelligence capability).

The following Diagram represents the MRM Emergency Response Management System Baseline Structure.

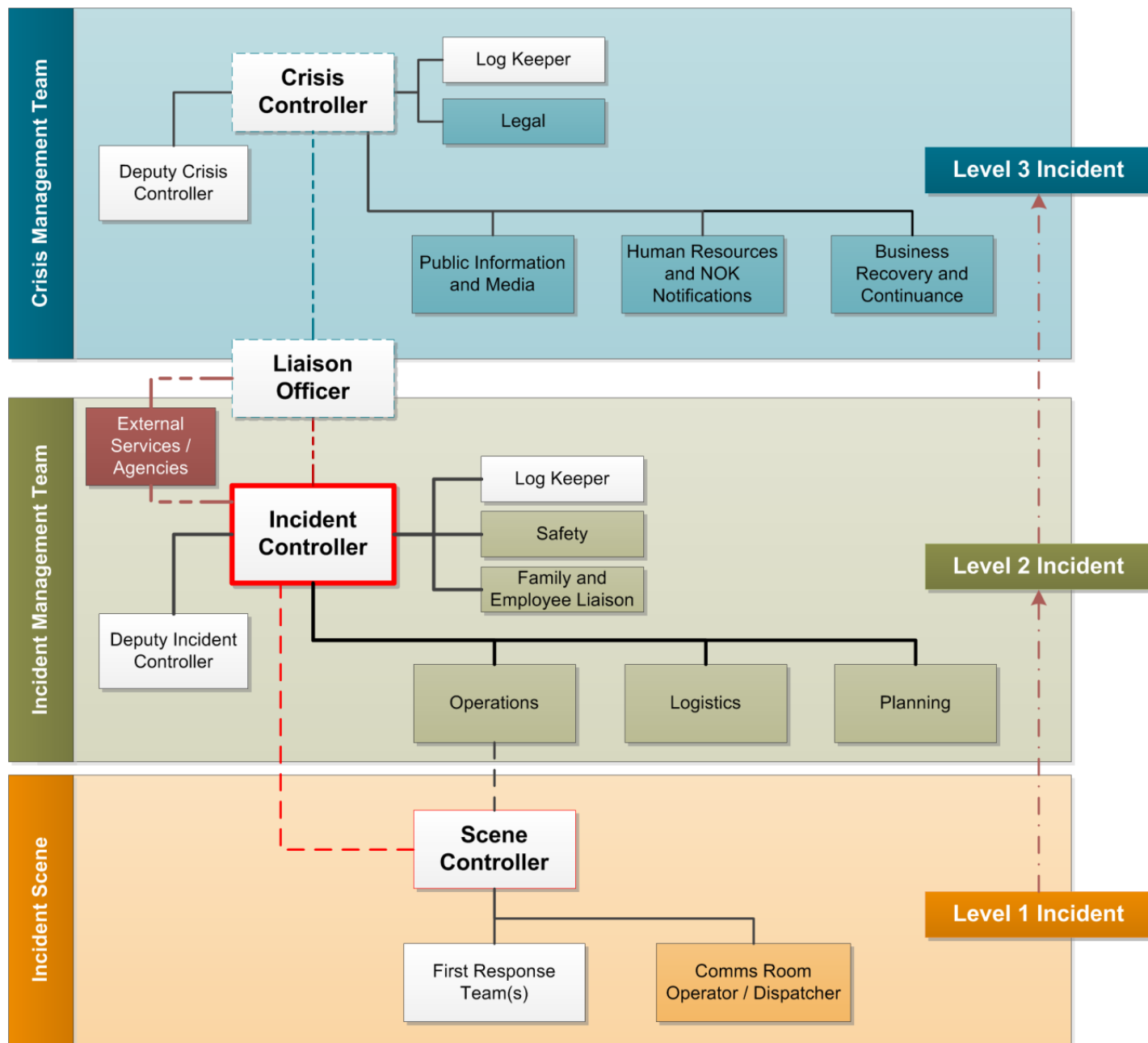


Figure 1 - MRM Emergency Response Management System Baseline Structure

## 6.0 Emergency Initiation

### McArthur River Mine – Emergency Procedure Mining Emergency Procedure

Personnel discovering an emergency in the mining area shall immediately call up on Channel 8 to declare an emergency

Use the words **"EMERGENCY, EMERGENCY"** and provide the following information:

- Your name
- The Nature of the Emergency
- The Location of the Emergency
- What Assistance is required

The Mining Supervisor (Scene Controller) shall assess what type of emergency it is and make the call on Channel 8 as to his / her directive e.g. Evacuation Requirements. Alert Channel 9 and 6 users as well.

If required, immediately call the Mill Control Emergency Operator on Channel 5 or Telephone ext. 222 / if external 89758222 and provide the following information:

Use the words **"EMERGENCY, EMERGENCY"** and provide the following information:

- Your name
- The Nature of the Emergency
- The Location of the Emergency
- What Assistance is required

### All other Departments/Locations Notifying an Emergency:

Use Channel 5 (Telephone ext. 222 / if external 89758222) and provide the same information to the Mill Control Emergency Operator as listed above. **(Name, Nature, Location and Assistance required)**

**Notes:** Do not hang up until instructed to do so and follow all instructions from your Supervisor or ERT Personnel.

Mining operations are to stop immediately, park up where safe and await further instructions.

**If you are in any doubt – immediately call the emergency on Channel 5**

## 7.0 Emergency Duties – Mill Control

- Contact the E.R.C. or delegate on Ch. 5 or Landline 89758265 (Fire Station) or Mobile 0407937130 failing this the ERT Duty Captain on 0437662582.
- Contact Paramedic on Ch.5. or Mobile 0459120301 or Landline 89758121 (Clinic).
- Contact the Scene Controller via radio or telephone. The Scene Controller is the manager or delegate responsible for the area where the emergency is located.
- Give the Scene Controller the information received and stand by to assist as instructed
- Write the incident information in the Emergency Response Report Form.
- Contact Environment Department by phone if requested by the Scene Controller, if a weekend, use the external contact list phone number for the Environment Superintendent or ESP Manager.
- Organise for assistance as directed by the I.C. and / or Emergency Teams.
- Document all actions and communications by Radio / Phone / Verbal in the Emergency Response Report Form.



## 8.0 Scene Controller

The Scene Controller may be the First Response Team supervisor or the work area supervisor, depending on the incident. The Scene Controller is to assess the situation on a regular basis to determine if escalation to a Level 2 Incident is needed.



### Warning

*At all times, the primary focus for the Scene Controller is the safety of personnel involved in an incident and those responding.*

First responders can generally resolve a Level 1 Incident. Formal (documented) *Incident Action Plans* are not required, other than existing emergency procedures or processes

The Scene Controller at the McArthur River Mine and the Bing Bong Bulk Loading Facility is the person who retains overall responsibility in an emergency situation; the scene Controller is usually the Shift Supervisor or his delegate for the area in which the emergency is taking place. This responsibility can be delegated to a person with a higher level of responsibility dependent on the emergency situation.

On weekends the Scene Controller will be delegated as per an agreed roster. The Scene Controller will be contactable via site radio / landline or mobile phone, 24 hours a day while on site and will be recognisable to all personnel by a reflective vest with the words "Scene Controller" marked on it, during an emergency.

Area Delegation	Scene Controller
All Mining areas, including Explosives magazines and Dyno Bulk storage area.	Mining Manager or Delegate
Village, Airport, Supply Warehouse, Bulk Haulage and Administration Buildings.	ESP Manager or Delegate
Heavy Media Plant, Crushing Plant, Metallurgy Concentrator, Metallurgy Administration building, Tailings Storage Facility, Tailings line and Power Station	Metallurgy Manager or Delegate
Bing Bong Port Facility, including Bing Bong accommodation Village.	MRM Bing Bong Superintendent
MV Aburri	Vessel Master or Delegate

### 8.1 Emergency Duties – Scene Controller

The Scene Controller retains overall responsibility in Emergency Response situations. The Scene Controller shall be responsible for coordinating the initial site response to the emergency and in the event of an emergency that warrants evacuation, they shall remain the key point of contact for the Emergency Response Team and assist with information and specialist advice from external authorities.

#### **Once notified of an emergency, the Scene Controller shall:**

- Collect the Scene Controllers Pelican Case or ask for it to be collected and delivered to the emergency location.
- Put on the vest marked “Scene Controller”.
- Attend the scene and take control of the overall incident.
- Liaise with E.R.T. regarding the safe outcome of the incident.
- Liaise with paramedic regarding any casualties.
- Additional responsibilities of the Scene Controller include:
- Obtain assistance from personnel accountable for that area.
- Direct personnel to assist in emergency response as required.
- Allocate resources.
- Communicate with external parties or services i.e.; police, hospital etc.

#### **Once the emergency is controlled, the Scene Controller shall:**

- Declare the emergency over.
- Ensure the scene of the emergency has been barricaded off to allow an investigation.
- Signal return to work, if appropriate.
- Assess Emergency Response and conduct a debriefing.
- Prepare and collate reports as required.

### 8.2 Scene Controllers Pelican Case

The I.C. Pelican Case is available in the B.B. Incident Control Room with the following contents:

- Satellite phone with 240 volt charger, car charger and instructions.
- G.P.S. Unit and spare batteries
- Scene Controllers vest.
- Laptop with access to:
  - MRM Emergency Management Process Chart by Response Level (New)
  - MRM Emergency Response Management Duty Cards (New)

- MRM Xanthate Emergency Management Plan (New)
- MRM Cleared Fire Breaks 2017 (New)
- Bing Bong Emergency Response Management Plan (Revised)
- McArthur River Emergency Response Management Plan (Revised)
- Aerodrome Emergency Plan (Revised)
- Emergencies, Crisis and Business Continuity
- Crisis Management Manual
- General Spill Response Procedure.
- Major Concentrate Spill – Trucking Incident
- Catastrophic Hazards
- Catastrophic Hazard Procedure
- Incident Management Procedure
- Incident Investigation Guideline
- Communication and Engagement Procedure
- Managing Electric Shock Procedure
- Site Security Procedure
- Village Emergency Response Plan
- Emergency Response and Site Wide Evacuation
- Medical Evacuation Procedure
- Dyno Nobel Emergency Response Plan
- Glencore, MRM and Australian Telephone Directory
- Terrorist / Bomb Threat Record
- Emergency Response Report Form
- Internet including Chemailert, Weatherzone, Google Earth Pro & A
- AIIMS AIDES-MEMOIRE Incident Management Program

### 9.0 Emergency Response Coordinator

The Emergency Response Coordinator at McArthur River Mine and the Bing Bong Bulk Loading Facility is the person who is responsible for the coordination of the Emergency Response Team at an Emergency incident. The Emergency Response Coordinator will be contactable on Ch. 5 or Landline 89758265 (Fire Station) or Mobile 0407937130, 24 hours a day / 7 days per week.

## 10.0 Emergency Response Team

### Emergency Response Team duties:

It should be noted that these duties are intended only as a guide and are designed in a generic sense. There may be additional tasks that need to be completed or tasks completed in a different sequence due to the nature of the incident. This will be the decision of the Scene Controller in consultation with the Emergency Response Coordinator (if required) after careful analysis of the situation.

### Once notified of an emergency, the Emergency Response Team shall:

- Assemble as quickly as possible, by whatever means possible.
- Assess any additional equipment necessary for the emergency.
- Check that your personal Fire Equipment Bag is available
- Check mobile phone, satellite phone and radio communications as required.
- Respond to the designated area / carry out response as per training / procedures.
- Adhere to instructions by the Emergency Response Coordinator and Scene Controller.
- Assist the Paramedic with any medical treatment.
- Ensure all equipment is serviced, cleaned and replaced after use.
- Participate in the emergency debrief.
- Prepare reports as required.

### Brief of Duties in an Emergency:

#### McArthur River Mine

Duty Card	Title	Report To	Comments
	All Employees & Contractors	Scene Controller	
	Mill Control Operator receiving the Emergency Call	Scene Controller	Answer emergency call, record information and relay information on to Scene Controller
	Scene Controller	General Manager / or Delegate	Controls and directs overall Emergency Management process.
	Log Keeper	Scene Controller	Keeps times and details of all decisions and actions.

Paramedic	Scene Controller	Coordinate and conduct any medical intervention required by the Scene Controller.
Emergency Response Coordinator	Scene Controller	Respond to instructions given by the Scene Controller.
Emergency Response Team	Emergency Response Coordinator	Respond to instructions given by the Emergency Response Coordinator.

Reference: For further information refer to The MRM Emergency Response Manual Part-2 Duty Cards

## 11.0 Paramedic/Nurse

After the initial call for assistance, the Paramedic/Nurse shall:

- Proceed to the designated location if deemed necessary.
- Liaise with the Emergency Response Team.
- Provide leadership of the triage, treatment and repatriation of injured personnel.
- Report to the Scene Controller on additional assistance as required
- Participate in the emergency debrief.
- Prepare reports as required.

For safety reasons, if the Paramedic/Nurse is required to respond to off-site emergencies he / she shall be accompanied by a member of the Emergency Response Team.

## 12.0 Evacuation Sirens

The Evacuation Siren activation points are located in the following areas:

- The Mill.
- Outside of the Village Mess.

## 13.0 Fire and Evacuation

### 13.1 General Fire

Person discovering fire shall complete the following steps:

- Check the source of the fire and isolate the source if safe to do so.
- Notify Mill Control Emergency Operator on Ch.5 or ext.222 / if external 89758222.
- Follow the Emergency Call Procedures.

- If you can safely extinguish the fire do so, otherwise evacuate the area.
- Alert other personnel in the area.
- Evacuate to a safe location.
- Remain Contactable.

### **Emergency Response Team shall:**

- Check for any danger or hazards.
- Rescue any personnel overcome or threatened by the fire.
- Exposures are to be protected such as fuel tanks, LPG cylinders, buildings or vehicles.
- Contain the fire and prevent it from spreading.
- Extinguish the fire urgently and efficiently.
- Overhaul the remnants of the fire and ensure all hot spots are extinguished thoroughly.

### **Person discovering a leak / fire shall:**

- Check the source of the leak / fire and isolate if safe to do so.
- Notify the Mill Control Operator on Ch.5 or ext. 222 / if external 89758222.
- Follow Emergency Call Procedures.
- If a fire is involved extinguish only if safe to do so, otherwise immediately evacuate
- Alert all other personnel in the area.
- Evacuate to a safe location.

### **Emergency Response Team shall:**

- Check for danger or hazards.
- Immediately shut off all ignition sources in the case of leaks.
- Rescue any personnel overcome by a liquid, gas or fire.
- Protect exposures.
- Contain the fire or dilute / contain the liquid / gas as recommended in the S.D.S
- Extinguish fire urgently and efficiently.
- Overhaul remnants of any fire and ensure all hotspots are extinguished.

### **Emergency Duties – Muster Point Controller**

This person maintains and controls the flow of personal traffic around the muster point. The responsibilities of the Muster point controller include:

- Put on identification vest marked “Muster Point Controller”.
- Directs personnel arriving at the Muster point.
- Assign door knockers. Ensure door knockers understand their duties.

- Advise persons not to leave the area until advised by Scene Controller.
- Ensure all persons are accounted for and advise the Scene Controller of the result.

### Emergency Duties – Door Knocker for Office and Village Rooms

This person is to locate and account for all personal and relay directions as specified by the Muster Point Controller. The responsibilities of the door knocker include:

- Proceed to the sections of the camp assigned as per the team folders or as directed.
- Knock on all doors of the rooms assigned to you and wait for a response, if the occupant responds direct him to the evacuation point. You may have to give directions as to avoid sending persons into the incident scene.
- Do not argue or try to physically remove persons if they refuse to leave, inform the Muster Point Controller and move on.
- Inform the Muster Point Controller once you have completed your section and await further instruction.

### 13.2 LPG Leak or Fire

#### Person discovering the leak or fire shall:

- Check the source of the leak or fire and isolate if safe to do so.
- Call Mill Control Emergency Operator on Ch.5, 222 or 89758222 (external)
- Contact E.R.T. immediately
- Alert all other personnel in the area.
- Evacuate to a safe location.

**Note:** For leaks or fires involving heat directly impinging on the gas bullets, evacuation of all personnel to a distance of 1000 metres is mandatory until fire is extinguished or gas leak is controlled and gas has been dispersed.

### 13.3 Tyre Fire

#### Person / Operator discovering a tyre fire shall:

In the event that the operator of a rubber tyred machine becomes aware of a tyre fire, or the potential for a tyre fire, the initial actions to be taken are:

- The machine operator will call “Emergency, Emergency” as per the emergency procedure on radio channel 10 and advise the Supervisor of the incident.
- Depending on the nature of the incident the Direct Supervisor will advise the operator to stop in situ or advise that operator to proceed immediately to the nearest park up area where the machine should be parked on flat level ground. Preferably this will be at a 500 metre isolation area. Ensure there is adequate space around the machine and where a water cart can access the fire safely.

### **The operator shall:**

- When the vehicle is in the pit, the vehicle shall be parked with the suspect tyre facing a solid wall. If possible, wheels shall be turned into the straight position.
- Remain in the cabin of the vehicle unless imminent danger exists.
- Where the presence of a fire is confirmed by visual or other senses the engine is to be shut down immediately and the fire suppression systems activated. In other instances, the vehicle shall be stopped gear placed in neutral and the park brake applied.

**NO attempt to extinguish the fire with a portable extinguisher is to be made. Operators are reminded that under most conditions, they are safest whilst remaining in the cab until assistance arrives and a full assessment has been made of the situation.**

### **Mining Supervisor (as directed by the Scene Controller) shall:**

- Declare an emergency on mining Channels 6, 8 and 9.
- The Supervisor will activate the Emergency Response Team as per the MRM Emergency Procedure and organise to have the nearest available Heavy Water Cart travel towards the incident area.
- Notify the Mill Control Emergency Operator on Ch.5 or ext. 222 / if external 8975 8222.
- Evacuate all personnel within 500 m radius.
- Direct the affected vehicle to an isolated area if time permits and it is safe to do so.
- Direct the operator of the affected vehicle to turn off the vehicle and select safe parking procedures.
- If the affected vehicle is a Haul Truck, the safe extrication of the operator will be determined by the Mine Supervisor dependent on the severity of the fire and other conditions.

The preferred method of evacuating the operator is to drive a similar style of vehicle to the front of the vehicle involved. Evacuate the operator across a non-conductive platform placed between the two vehicles. The Fire Truck shall be driven in line with the front or back of the vehicle and if possible approaching from the end and side opposite to the compromised tyre in order to place a solid barrier to protect personnel.

If there is a need to evacuate on foot, the operator will descend the ladder or vehicle access as quickly as possible, but with regard to the conditions. The escape route shall be in front of or to the rear of the vehicle, on the opposite end and side of the vehicle to the compromised tyre. The operator should walk directly away from the machine.

Smaller tyres such as road train tyres, smaller loaders and even light vehicle tyres still carry an explosion risk and should be treated with caution. An exclusion zone shall be set up if it is deemed necessary by relevant supervisor.



Large tyre explosions have been known to throw debris 300 metres. Therefore an exclusion zone distance of 500 metres radius from large wheeled equipment should be maintained. The demarcation area shall be clearly marked by erecting signage, barrier fencing, tape etc.

Except to evacuate the operator, no person other than Emergency Personnel shall enter the exclusion zone

A vehicle that has an overheated tyre will remain isolated until a 24-hour period has elapsed since the time the overheating was discovered.

Exemption to an Isolation Period is when the Incident Commander in consultation with a tyre specialist deems it safe.

### **Emergency Response Team shall:**

- The ERT coordinator will activate the Emergency Response Team (ERT) and take charge of the incident scene. The emergency services coordinator will coordinate with the mining supervisor to manage the incident.
- Follow the directions of the Incident Commander
- Adhere to the training and procedures relating to Heavy Vehicle Tyre Fires & Extinguishment.

### **Fire Fighting Operations**

Where a fire, smoke or elevated temperature is observed to be emitting from or near a wheel the ERT Coordinator will:

- Consider the evacuation method for the operator.
- For the protection of all emergency services personnel, where practicable, firefighting shall be carried out using a Heavy Water Truck with a remote operated water cannon or monitor. In the event that a cannon or monitor is unavailable then ground monitors with fan sprays should be used, at the highest possible flow rate.
- The ERT Coordinator will brief the Water Cart operator to approach the scene from in front of or to the rear of the vehicle with the bulk of the water tank or other solid barrier between the operator and the disabled vehicle.
- The ERT Coordinator will remain in constant contact with the water cart on a designated channel throughout the operation. The water truck should be positioned in such a way as to keep as much of the tank forming a barrier to the compromised tyre as is practicable.
- Where the ERT Coordinator or another person is required to assist in the directing of the water truck, then those persons shall be in a well-protected vehicle, such as a loader or truck, and should remain at as great a distance as is practicable while retaining sight of the affected tyre. Communication should be by way of two-way radio on a secure channel. Training shall be completed as part of the Water Truck assessment.
- If it is not practicable to approach the vehicle using mechanical means, as described above, then the use of ERT personnel employing conventional firefighting techniques, such as hose and branch, may be considered. However, the decision to permit the use

of conventional means shall be at the sole discretion of the Site Registered Manager of that area or his appointed Deputy and shall take place only after a complete risk assessment has been undertaken by the ERT Coordinator. The risk assessment should include the feasibility of personnel approaching from behind the protection of other machinery or other protective devices. The protection of life shall, at all times, take precedence over the protection of machinery.

### Post Incident Actions & Quarantine Period

- A suspected fire shall be treated as an actual fire. Except for the purposes of firefighting or cooling, the vehicle shall not be approached for 24 hours except with the permission of the Registered Manager of the area, his appointed Deputy or representative, in consultation with other relevant personnel.
- In the case of a known fire, except for the purposes of firefighting, the vehicle shall not be approached for 24 hours. In this case the 24 hour quarantine period commences only after the last signs of visible fire have been extinguished. Any variation to the quarantine period shall only be authorised by the Registered Manager of the area, his appointed Deputy or representative, in consultation with other relevant personnel.
- The vehicle should then be approached by only one person for the purpose of ensuring that the tyre or tyres are at normal expected temperature, wherever practicable using a thermographic device. If normal readings are ascertained then the area may be declared safe and open with the permission of the Registered Manager of the area, his appointed Deputy or representative.
- Area shall be barricade and signage in place.

### Checking Status of Fire

- Following the quarantine period a Tyre specialist shall make an assessment of the status of the fire. If fire is observed, or suspected, the quarantine period shall be repeated.
- Where a fire has occurred at dual assemblies the Mechanical Supervisor must ensure that both tyres have been checked for the possibility of an internal, slow burn fire.
- If, in the opinion of the competent persons inspecting the area, the fire is considered out then, with the permission of the Registered Manager of the area, his appointed Deputy or representative, the area may be declared clear.

### After Fire is out

Once the fire is out and the area has been cleared "All Clear" the following process will be completed by maintenance personnel:

- The tyre will be stripped as per normal procedures.
- The tyre should be returned to the manufacturer or supplier for investigation of the cause of the fire or overheating and to assess the tyres condition.
- For a dual assembly, both tyres shall be treated as suspect.

- Following a lightning strike or contact with power lines, all tyres on the vehicle shall be checked and assessed, by a competent person, before being returned to service.

### 13.4 Conveyor Belt Fire

#### Person discovering fire shall:

If the fire is small, notify the Supervisor on Ch. 10, an attempt to extinguish the fire can be made by attacking the fire with a heavy spray of water or fire extinguisher, whilst doing this care shall be taken to avoid inhaling fumes and water shall be applied from up wind. Whilst this fire-fighting is in progress, plant operators shall:

- DO NOT stop the conveyor.
- Inform Mill control of which conveyor is on fire.
- Remove all vehicles from the area.
- Evacuate all personnel from the area.

#### Emergency Response Team

- Check for danger and any hazards.
- Ensure all power isolation has been conducted.
- Use water and foam to fight the fire.
- Use Self-Contained Breathing Apparatus if necessary.

#### Mill Superintendent

- Call the mine for assistance if required e.g. Water Truck
- Check for danger and any hazards;
- Ensure all power isolation has been conducted

### 14.0 Concentrate Haul Truck Fire

#### Person discovering fire shall:

- Call Mill Control Emergency Operator on Ch.5, 222 or 89758222 (external).

#### Emergency Controller shall:

- Contact E.R.C. and E.R.T.
- Contact Scene Controller
- Contact other external personnel as directed by the Scene Controller.
- Evacuate personal in area.

## 15.0 Fire on a Surrounding Cattle Stations

### Person discovering fire shall:

- Call Mill Control Emergency Operator on Ch.5, 222 or 89758222 (external).

### Mill Control Emergency Operator

- Contact Scene Controller (Administration Manager) to determine course of action.

### Scene Controller shall:

- Determine response required based on severity of the fire, requirements of neighbouring properties or vicinity to operational areas.

## 16.0 Gas Pipeline Fire

### Person discovering fire shall:

- Call Mill Control Emergency Operator on Ch.5, 222 or 89758222 (external).

### Mill Control Emergency Operator

- Contact Scene Controller (Administration Manager) to determine course of action.
- Call the Gas Pipeline Emergency Contacts:

### Scene Controller shall:

- Determine response required based on severity of the fire, isolate all roadways for a distance of 500 meters minimum distance depending on the location, the exclusion zone may need to be increased.
- Do not attempt to fight the fire or dissipate gas build up.
- Ensure naked flames or smoking are prohibited from the area.

## 17.0 Tailing Storage Facility

### Person discovering an issue:

- Call Mill Control Emergency Operator on Ch.5, 222 or 89758222 (external).

### Mill Control Emergency Operator

- Contact Scene Controller to determine course of action.
- Call the Mining Manager / Superintendent to commence mobilisation of mining equipment

### Scene Controller shall:

- Determine response required based on severity of the issue, isolate all roadways for a distance of 500 meters either side on the Carpentaria highway, the exclusion zone may need to be increased.
- The IMT to be notified and formed

## 18.0 Accommodation (Village Fire)

### Person discovering fire shall:

- Check the source of the fire and isolate the source if safe to do so.
- Call the Emergency Controller on Ch.5 , 222 or 89758222 (external)
- If you can safely extinguish the fire do so, otherwise clear the immediate area.
- Alert other personnel in the area activate village evacuation siren if required.
- Activate Village evacuation point flashing light and follow evacuation procedures.
- Evacuate personnel to the evacuation point or to an alternate position if smoke is in the evacuation area.
- No personnel should be allowed to leave this point until advised to do so by the Emergency Controller.

### Emergency Response Team shall:

- Check for any danger or hazards.
- Rescue any personnel overcome or threatened by the fire.
- Exposures are to be protected such as LPG gas cylinders, buildings or vehicles.
- Contain the fire and prevent it from spreading.
- Extinguish the fire urgently and efficiently.
- Overhaul the remnants of the fire and ensure all hot spots are extinguished thoroughly.

## 19.0 Ammonium Nitrate Storage Shed Fire

### Person discovering fire shall:

If the fire is small, an attempt to extinguish the fire can be made by attacking the fire with a heavy spray of water, whilst doing this care shall be taken to avoid inhaling fumes and be applied from up wind. Whilst this fire-fighting is in progress, plant operators should:



1. Check the source of the fire and isolate the source if safe to do so.
2. Notify the Mill Control Emergency Operator on Ch.5 or ext. 222 / if external 89758222.
3. If you can safely extinguish the fire do so, otherwise clear the immediate area.
4. Alert other personnel in the area.
5. Isolate all electrical, hydraulic and pneumatic power.
6. Remove palletised oxidiser (A.N.) from the vicinity of the fire if it is safe to do so.
7. Remove all vehicles from the area if it is safe to do so.
8. If these efforts are unsuccessful and the fire appears to be getting out of control, evacuate all personnel within one (1) kilometre of the area.

**Emergency Response Team shall:**

- Refer to the S.D.S.
- Check for danger and any hazards
- If an attempt is made to fight the fire, personnel should wear SCBA & protective clothing.
- Water spray may be used to cool down heat-exposed containers.
- Fight fire from a safe location.
- This product should be prevented from entering drains and watercourses.
- If the fire is deemed out of control, evacuate of all personnel 1 kilometre.

## **20.0 Explosives Truck Fire**

**Refer - Dyno Nobel / MRM Emergency Response Plan**

**Person discovering fire shall:**

Trucks or vehicles carrying explosives will be identified with signage on the front rear and sides. Site vehicles also have a blue flashing light in addition to the orange flashing light.



1. If the truck is carrying explosives and the fire is out of control do not attempt to put the fire out, stop the vehicle if it is travelling. Park it so that it will not block any roads and evacuate the area and notify the Mill Control Emergency Operator on Ch.5 or ext. 222 / if external 89758222 and advise the requirement to evacuate within a 1 Kilometre radius.
2. If the truck, tyres or load is on fire, and the truck is not carrying any explosives notify the Mill Control Emergency Operator on Ch.5 or ext. 222 or if external 89758222. Attempt to fight the fire with dry chemical extinguishers. If the fire appears to be increasing or getting out of control, evacuate to a safe distance away and wait for further instruction from the Scene Controller.

**Emergency Response Team shall:**

**Follow the relevant S.D.S.**

- Check for danger and any hazards.
- Ensure all power isolation has been conducted.
- Use Water-fog to cool intact containers and nearby storage areas.
- Use SCBA and Protective Clothing.
- Be aware that this product has a risk of violent reaction or explosion.

## **21.0 MIBC Tank Fire (Methyl Isobutyl Carbinol)**

**Person discovering fire shall:**

Notify the Mill Control Emergency Operator on Ch.5 or ext. 222 / if external 89758222.

An attempt to extinguish a small fire can be made by attacking the fire with a foam fire extinguisher. Whilst doing this care shall be taken to avoid inhaling fumes and the foam extinguisher shall be applied from up wind.

1. If the fire is not able to be extinguished then the Mill area evacuated.
2. Isolate all electrical, hydraulic and pneumatic power.

Evacuation to the Mill evacuation point will be via a route behind the flotation and filter cranes and then along the main access road (staying close to the water treatment plant fuel

bowsers) to the Metallurgy offices. Evacuation route or point may altered by the Scene Controller to ensure the safety of personnel.

### **Emergency Response Team shall:**

- Follow the relevant S.D.S.
- Check for danger and any hazards.
- Ensure all power isolation has been conducted.
- Use alcohol resistant firefighting foam.
- Use Water-fog to cool intact containers and nearby storage areas.
- Use SCBA and Protective Clothing
- Be aware that this product has a risk of violent reaction or explosion.

## **22.0 Xanthate**

### **Refer to MRM Xanthate Emergency Management Plan**

#### **Person discovering a fire or smoke shall:**

- Notify the Mill Control Emergency Operator on Ch.5 or ext. 222 / if external 89758222.
- There is a plan to handle Xanthates in a smoking or fire state.
- Stay upwind.
- Isolate all electrical, hydraulic and pneumatic power.
- Remove all vehicles from the area is safe to do so.
- Evacuate all non-ERT personnel to the Mill Evacuation Point.

#### **Emergency Response Team shall:**

- Follow MRM Xanthate Emergency Management Plan.

## **23.0 Waste Discharge with potential to cause Serious Environmental Harm**

#### **Person discovering the issue:**

- Contact Environment Superintendent or on-site representative
- Contact Dewatering Leading Hand on 0429021800
- Follow instruction for any initial response or containment actions as directed by Environment Superintendent or on-site representative.

#### **Environment Superintendent or representative shall:**

- Ensure no ongoing discharge or action that furthers environmental harm
- Notify all Managers



- Conduct immediate inspection to assess impact on environment
- Follow *PRO-2600047 General Spill Response* if applicable
- Immediately notify relevant statutory authorities as required under legislation and/or site licenses and authorisations.
- Consult with specialists to assist in the design and implementation of an emergency response sampling plan as necessary.
- Consult with specialists and statutory authorities to assist with the design and endorsement or remediation plan as necessary.
- Follow *Communication Plan Waste Discharge Licence (WDL174-10)*

### **Emergency Response Team shall:**

- Follow instruction and provide assistance to environment team for any initial containment works, sampling or remediation works as directed by **ESP Manager** or Superintendent- Environment and Community.

### **24.0 Other Emergency Incidents may include:**

- Earthquake / Tsunami.
- Cyclone Procedures.
- Storm Surge.
- Hazardous Substance.
- XANTHATES.
- Exposure to Sulphur Dioxide (SO<sub>2</sub>).
- Refer to - MRM Xanthate Emergency Management Plan.
- Suspicious Activities.
- Protestors.
- Unauthorised Access.
- Bomb Threat.
- Terror related – MRM Terrorist / Bomb Threat Record
- Electric Shock.
- Mobile Equipment in Contact with Power Cables.

Refer to – MRM Managing Electric Shock Procedure

- External Emergency.
- Missing Persons.
- Tailing Dam Failure.
- Highwall or Void Failure.
- Flooding in the Mine.

- Plane / Helicopter Crash.

### 25.0 Evacuation Locations: refer to:

- MRM Emergency Response And Site Wide Evacuation
- MRM Evacuation Drill Schedule
  - Metallurgy Office.
  - Mill and Workshops.
  - Laboratory.
  - Mine, Mining Offices, EPSA, and Workshops.
  - Ammonium Nitrate Compound & Magazine.
  - Administration Offices Evacuation.
  - Village Evacuation Procedure.
  - Warehouse Evacuation.
  - Bing Bong Evacuation.
  - Airport.

### 26.0 C.M.T. Control Room

The Scene Controller should determine a site control location at the time of an emergency or incident, depending on the location and other safety factors.

A Central Control Room in the event of a C.M.T. is the Main Administration Conference Room. In the event of a site evacuation the MST Office at the village will be utilised.

### 27.0 Fatalities

In the event of a fatality or fatalities, the body/s shall not be moved in any way, unless they have been treated with first aid or there is potential for the bodies to be damaged or destroyed

Fatalities should be covered over for the wellbeing of bystanders and the area around the scene isolated and barricade to prevent unauthorised entry. No personnel are permitted to disturb the scene, move equipment or remove objects until a police investigation has been completed

No persons, other than those directed by the Scene Controller, are permitted to take photographs of the scene or any deceased person/s.

### 28.0 Media

No M.R.M. employee, contractor, sub-contractor or visitors are to talk to the media

- If personnel are approached by a journalist or media representative asking question, you are to take their full name, type of media, and company they represent and pass it on to the Community Relations Department.
- Make no comments or answer any questions to a reporter / journalist.

### 29.0 Recovery

Recovery after an emergency is a critical step in ensuring another emergency does not follow or is not caused by the residual effects of the initial emergency.

The following outlines the responsibilities for recovery of the site to normal condition:

#### Scene Controller shall:

- Declare emergency over when satisfied that all personnel are accounted for and recovery operations can now safely begin.
- Ensure debrief is held, documented and any corrective actions assigned.
- Ensure lessons learned are communicated to the others sites as appropriate.
- Ensure that evidence that may be required for investigation purposes are not disturbed by the recovery operation.
- Hand control of operational areas back to Managers, Superintendents as applicable.
- Ensure the E.R.T. and Paramedic have returned to pre-emergency preparedness.

#### Paramedic Shall:

- Ensure medical centre is restocked / cleaned as required.
- Ensure ambulance is restocked / cleaned as required.
- Attend debrief if applicable.

#### E.R.T. shall:

- Ensure all emergency response equipment is replaced as required.
- Ensure that all equipment is operationally ready.
- Ensure emergency response team have been debriefed.
- Ensure emergency response team fatigue levels are assessed, including paramedic prior to them being allowed back to their respective work areas.

### 30.0 Responsibilities

General Manager	Field external enquires regarding the incident and personally contacts family members in the case of a serious injury or fatality.
Managers	When advised of a serious injury/fatality, check that the personal information on the casualty is correct and that the Human Resources department has been advised of all details. Verify that the General Manager has been informed of all details to hand; and follow up to ensure relevant family members have been contacted if necessary.
Scene Controller	<p>Retains overall responsibility in Emergency Response situations.</p> <p>Once notified of an emergency, the Scene Controller shall:</p> <ul style="list-style-type: none"> <li>• Confirm Emergency Response and Medical in underway</li> <li>• Inform the General Manager and Area Manager;</li> <li>• Direct personnel to assist in emergency response as required</li> <li>• Allocate resources; and Communicate with external parties/services.</li> <li>• Once the emergency is controlled, the Scene Controller shall:</li> <li>• Declare emergency over;</li> <li>• Ensure the scene of the emergency has been barricaded off to allow an investigation into the incident to occur;</li> <li>• Signal return to work, if appropriate.</li> <li>• Assess emergency response, and conduct a debrief meeting; and</li> <li>• Prepare and collate reports as required.</li> </ul>
Supervisors	<ul style="list-style-type: none"> <li>• Ensure an emergency call has been made.</li> <li>• Check if the Scene Controller has been notified.</li> <li>• Oversee the evacuation of the area if required, account for all personnel.</li> <li>• Provide an escort for Emergency Response as required.</li> <li>• Assist the Scene Controller and E.R.T. as required.</li> <li>• Secure the incident scene and ensure it remains undisturbed until advised by the Scene Controller.</li> </ul>
Paramedic	Assume sole responsibility of the triage, treatment and repatriation of injured personnel. Report to the Scene Controller on additional assistance as required, e.g. Careflight. Participate in the emergency debrief and Prepare reports as required.

Emergency Response Coordinator	Assist the Scene Controller and coordinate the Emergency Response Team. Ensure the E.R.T. is in a state of readiness in the event of an emergency. Maintain and ensure adequate resourcing of Emergency Response Equipment. Ensure the Site Emergency Response Plan is reviewed and update annually.
Emergency Response Duty Captain	Respond to instructions given by the E.R.C. Assemble the E.R.T. Report to the designated area as directed by the E.R.C. Carry out instructions as directed by the E.R.C. Participate in the emergency debrief. Prepare reports as required.
Emergency Response Team Members	Follow directions as instructed by the Emergency Response Duty Captain. Not put themselves or others in danger.
Employees	Follow all instructions as directed by the Scene Controller.  Participate in any required activities relating to the emergency, e.g. Assistance, investigations, and debriefings. Not hinder any part of the emergency activity. (Any person found guilty of hindering the Scene Controller or member of the Emergency Response Team in the performance of their duty during an emergency may be prosecuted under State and Federal law and will be subject to discipline under the MRM behaviour code)
Control Room Operator	Receive the emergency call, obtain the relevant details, and brief the Emergency Response Coordinator and the Incident Commander. During an emergency, all communication relating to the emergency shall be conducted on the Emergency Channel i.e. Ch. 5 (Ch.10 at Bing Bong)

### 31.0 References

- Northern Territory of Australia Coroners Act.
- Work Health and Safety Act (National Uniform Legislation) Act 2011.
- Xstrata SD Standard 17 – Emergencies, Crises and Business Continuity.
- Glencore lifesaving behaviours and fatal hazard protocols (Oct 2013).
- MRM Emergency Management Process Chart by Response Level (New).
- MRM Emergency Response Management Duty Cards (New).
- MRM Xanthate Emergency Management Plan (New).
- MRM Cleared Fire Breaks 2017 (New).
- Bing Bong Emergency Response Management Plan (Revised).
- McArthur River Emergency Response Management Plan (Revised).

- Aerodrome Emergency Plan (Revised).
- Emergencies, Crisis and Business Continuity.
- Crisis Management Manual.
- General Spill Response Procedure.
- Major Concentrate Spill – Trucking Incident.
- Catastrophic Hazards.
- Catastrophic Hazard Procedure.
- Incident Management Procedure.
- Incident Investigation Guideline.
- Communication and Engagement Procedure.
- Managing Electric Shock Procedure.
- Site Security Procedure.
- Village Emergency Response Plan.
- Emergency Response and Site Wide Evacuation.
- Medical Evacuation Procedure.
- Dyno Nobel Emergency Response Plan.
- Glencore, MRM and Australian Telephone Directory.
- Terrorist / Bomb Threat Record.
- Emergency Response Report Form.
- Internet including Chemailert, Weatherzone, Google Earth Pro & Area Map.
- AIIMS AIDES-MEMOIRE Incident Management Program.
- Communication Plan Waste Discharge Licence (WDL174-10)

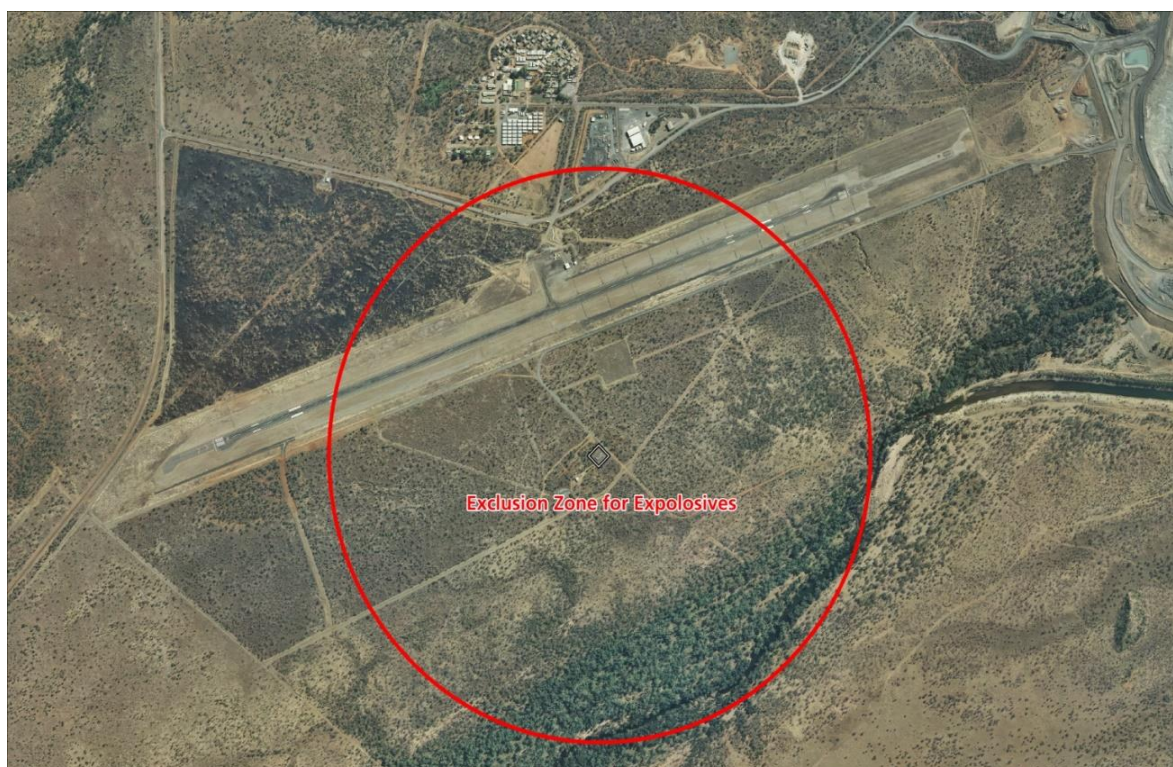
### 32.0 Maps / Plans



### Exclusion Zone for Dyno Storage Shed and Emulsion Storage



### Exclusion Zone for Explosives Magazines





### Evacuation Point Locations Village



### Administration





## Metallurgy



## Mining Offices and Workshops





### Old Power Station



### New Power Station





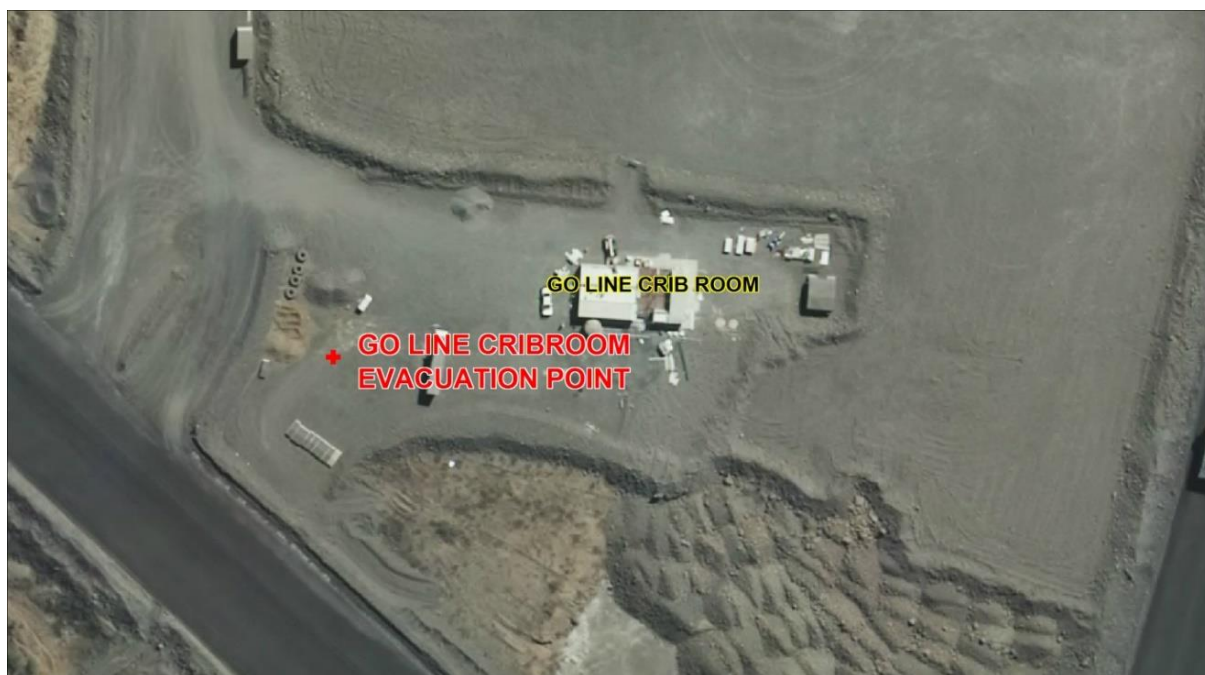
### Heavy Medium Plant



### Airport



### Goline Crib Hut



### M.I.A





## Warehouse

