



**Nathan
River
Resources**

EMERGENCY MANAGEMENT PLAN

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1. INTRODUCTION

1.1 PURPOSE

The purpose of this plan is to provide site with information on how to respond to various emergency situations that could occur due to unwanted incidents during normal operations.

This document forms part of the NRR Crisis and Emergency Management system, which comprises plans, procedures, responsibilities, forms, checklists etc. necessary to effectively manage emergency situations at NRR projects.

1.2 SCOPE

This Emergency Response Plan (ERP) forms part of the Crisis and Emergency Management System of NRR and covers, as far as practicable, all major emergency events that may occur on or about any of NRR sites.

It is not the intention to provide specific procedures for every possible emergency event, but to provide a general course of action that will ensure a systematic and flexible approach to each event.

This plan applies to all NRR operations, personnel, contractors, visitors and assets associated with the NRR Projects.

The Accountable Manager is responsible for ensuring the Emergency Response Plan is up to date and maintained.

2. POTENTIAL EMERGENCY INCIDENTS

Site risk assessments are used to identify and assess possible emergency events across NRR Operations. This review identified events that could have a significant impact on NRR Operations.

Specific responses to these incidents were identified which would complement the preventive controls that form part of the NRR Occupational Health and Safety Program. These Emergency Response Plans describe the response to the potential critical incident/emergency situations identified from the completed risk assessments. Each of these plans discusses.

- The main “threats” associated with the incident;
- Potential alarms or methods to alert persons of an emergency;
- The management response required (i.e., who should be notified, what action should be taken);
- Any special instructions;
- Contact details for specialist advice;

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Emergency Response Teams are a resource that may be deployed at the “front-line” to combat an emergency situation. Team personnel will have specific skills and knowledge in emergency response (e.g., firefighting, vehicle extrication, at heights rescue, hazardous chemicals response and first aid and patient management).

3. RESPONSE PLANS

An emergency is a situation which can rapidly escalate, and if not brought under control quickly may well result in major property/environmental damage, serious injury or death.

The person discovering an emergency is responsible for initiating the first level of the emergency procedures.

3.1 FIRE

A fire can occur at any location where fuel and ignition source exist.

3.1.1 MAIN RISKS

- Injury to employees;
- Loss of company assets;
- Adverse impact on company reputation;
- Disruption to production;
- Explosion.

3.1.2 ALARMS

- Area evacuation;
- Fire alarms;
- Two way radio communication.

3.1.3 RESPONSE

- Identify type of fire and any potential for the fire to spread, evacuate area under threat.
- Notify Accountable Manager.
- Call out Emergency Response Teams (ERT) with full breathing apparatus and fire response equipment if available or notify external emergency provider. Refer to Emergency Contacts list for contact details.
- Secure area with ERT members or other site personnel.
- Account for all personnel onsite.
- Notify crisis management team Leader (Corporate Office) and determine regular briefing as required.
- Notify other department and request provision of any equipment that may assist (water carts, grader, etc.)
- Prepare for likely media interest.
- Notify hospital if injury occurs.

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- Notify Police (if potentially fatal).
- Notify DMP.
- Notify contractor if contractor infrastructure or personnel are affected.
- Notify Department of Environmental Protection (if environmental impact results).
- Maintain security of affected area(s).
- Initiate appropriate investigation (may need to maintain security of area until completed).
- Maintain accurate log of all events.

3.1.4 EXTERNAL HELP

- Mutual aid providers.
- FES.
- Refer to “Emergency Information Directory” for contact numbers.

3.2 BUSHFIRE

A major bushfire in the local area could have a significant impact on the site operations. If a major bush fire occurred and threatened company and site assets, assistance from site personnel would be requested and require the provision of firefighting equipment / personnel and heavy earthmoving equipment (e.g., dozers, loaders, water trucks etc.) to cut fire breaks.

3.2.1 MAIN RISKS

- Injury to employees;
- Loss of company assets;
- Disruption to production.

3.2.2 ALARMS

- Area evacuation;
- Fire alarms;
- Two way radio communication.

3.2.3 RESPONSE

- Identify type of fire and any potential for the fire to spread, evacuate area under threat.
- Notify Accountable Manager.
- Notify site personnel.
- Call out Emergency Response Teams (ERT) with fire response equipment if available and notify external emergency provider (FES). Refer Emergency Contacts list for contact details.
- Account for all personnel onsite
- Notify other department and request provision of any equipment that may assist (water carts, grader etc.).
- Ensure personnel due to arrive to site are informed of delays or cancellations of travel arrangements.
- Ensure any critical areas are protected by fire breaks (power lines, fuel storage areas, etc.)
Only construct fire breaks if safe to do so.

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- Notify Crisis Management Team Leader (Corporate Office) and determine regular briefing as required.
- Notify hospital if injury occurs.
- Notify Police (if potentially fatal).
- Notify Regulatory Authority.
- Notify Contractor if contractor infrastructure or personnel are affected.
- Maintain security of affected area(s).
- Initiate appropriate investigation (may need to maintain security of area until completed).
- Maintain accurate log of all events.

3.2.4 EXTERNAL HELP

- Mutual aid providers.
- FES.
- Refer to “Emergency Information Directory” for contact number.

3.3 FLOODING / INRUSH OF MATERIAL

Flooding of the operations area, village and connecting roads may occur as a result of heavy rains. In the event of flooding in any work area, road or the camp, the Accountable Manager responsible for that area shall assess the extent of the flooding, possible underlying earth weakness or slips and associated hazards for operational activities and personnel.

3.3.1 MAIN RISKS

- Injury to employees;
- Loss of access to open pits or site;
- Loss of company assets;
- Adverse impact on company reputation;
- Disruption to production;
- Wet/Slippery roads increased potential for heavy equipment & light vehicle incidents.

3.3.2 ALARMS

- Two way radio communication.

3.3.3 RESPONSE

- Notify Accountable Manager.
- Assessment of operational activities that may be affected by the rain or flooding by the relevant managers. Any activity that may be adversely affected by the rain or flooding shall cease immediately and only recommence once the rain or water has subsided, and then not at normal operational capacity until all effects cease.
- Notify site personnel.
- Activate Emergency Management Plan and Duty cards (refer cover for location).
- Notify Crisis Management Team Leader (Corporate Office) and determine regular briefing as required.

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- Obtain up to date information from BOM or police.
- Notify supervisors of approaching rain/flood waters/ over flow from channels or water storage areas.
- Assess likely impact.
- Monitor local creeks/rivers/drainage/ storage dams old pits.
- Ensure personnel due to fly to site are informed of delays or cancellations of flights.
- Ensure hazardous roads or ramps are closed with appropriate signage and barriers to prevent entry.
- Exploration activities and vehicle movement on all main roads should be limited.
- Contact neighbouring stations to provide assistance as required.
- Consider closing haul roads /pit ramps/ site access if affected.
- Call out ERT if further resource or support required.
- Check Status of essential supplies (water fuel food etc.).
- If flooding is likely to be severe consider closing operations.
- Notify Contractor if contractor infrastructure or personnel are affected.
- If flooding of open pits is likely with draw personnel and stop operations.
- Maintain accurate log of all events.

3.3.4 EXTERNAL HELP

- FES.
- Pump hire contractors.
- Refer to “Emergency Information Directory” for contact numbers.
- inform personnel in the operations area to use 4WD on vehicles at all times.

3.4 GROUND FALL / SLIP/ RAMP FAILURE

Open Pit wall or access ramp failures are often preceded by cracking and ground movements, which may be visible. Regular monitoring of pit walls, crests and berms may help identify any potential failures. If a sudden failure occurs, evacuation to a safe place within the pit itself is usually the best course of action. Egress from the pit can then be made once an access way is re-cut. The possibility of having to evacuate injured persons quickly over the pit wall (if no vehicle access) may require Emergency Response Team call-out.

3.4.1 MAIN RISKS

- Injury to employees.
- Loss of company assets.
- Adverse impact on company reputation.
- Disruption to production.

3.4.2 ALARMS

- Area evacuation.
- Fire alarms.
- Two way radio communication.

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3.4.3 RESPONSE

- Evacuate area under threat and barricade area if possible.
- Notify Accountable Manager.
- Activate Emergency Management Plan and Duty cards (refer cover for location).
- Secure area with Emergency Response Teams (ERT) members or other site personnel.
- Account for all personnel onsite.
- Call out ERT if available or notify external emergency provider. Refer Emergency Contacts list for contact details.
- Notify Crisis Management Team Leader (Corporate Office) and determine regular briefing as required.
- Prepare for likely media interest.
- Notify hospital if injury occurs.
- Notify Police (if potentially fatal).
- Notify Contractor if contractor infrastructure or personnel are affected.
- Notify Department of Environmental Protection (if environmental impact results).
- Maintain security of affected area(s).
- Initiate appropriate investigation (may need to maintain security of area until completed).
- Maintain accurate log of all events.

3.4.4 EXTERNAL HELP

- Mutual aid providers
- FES
- Refer to “Emergency Information Directory” for contact numbers.

3.5 INJURY

Injuries to personnel could have a significant impact on the site operations. If a serious injury was to occur assistance from site personnel would be requested to provide first aid and possible transport of injured personnel to offsite medical aid. The severity of the injury and the location of the injured person would determine the level of response from the Emergency Management Team and Crisis management Team.

3.5.1 MAIN RISKS

- Injury to employees.
- Loss of company assets.
- Adverse impact on company reputation.
- Disruption to production.

3.5.2 ALARMS

- Area evacuation.
- Fire alarms.
- Two way radio communication.

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3.5.3 RESPONSE

- Notify site medic or first aid personnel and direct them to injured person(s) if area is safe or injured person(s) have been moved to safe area.
- First aid treatment to be provided in accordance with the DRSABCD action plan (Appendix 16.2) and within the qualifications of the site medic or first aid personnel.
- Notify Accountable Manager.
- Activate Emergency Management Plan and Duty cards (refer cover for location) and log all events.
- Call out Emergency Response Teams (ERT) to assist with patient management if available or notify external emergency provider. Refer Emergency Contacts list for contact details.
- Notify Crisis Management Team Leader if required (Corporate Office) and determine regular briefing as required.
- Prepare for likely media interest.
- Notify hospital if transporting to hospital.
- Notify Police (if potentially fatal).
- Notify Contractor if contractor personnel are affected.
- Maintain security of incident area(s).
- Initiate appropriate investigation (may need to maintain security of area until completed).

3.5.4 EXTERNAL HELP

- Mutual aid providers.
- FES/ St Johns.
- Refer to “Emergency Information Directory” for contact numbers.

3.6 CYCLONE

A cyclone coming down from the coastline is likely to maintain its form or change to a rain-bearing depression. Cyclone season generally runs from November through to April and can result in considerable rainfall.

3.6.1 MAIN RISKS

- Loss of company assets or mine.
- Loss of access and egress to the pit / mine.
- Loss of essential supplies.
- Disruption to production.
- Medical emergency/ injury.

3.6.2 ALARMS

- Media reports (i.e., Television, news, radio, newspaper).
- Bureau of Meteorology (BOM) will notify of emerging cyclones in the area.
- Perth Cyclone Manager.
- Cyclone.
- Fire alarms.
- Two way radio communication.

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3.6.3 RESPONSE

- Obtain up to date information from BOM or local police.
- Assess likely impact.
- Check status of site essential supplies.
- Notify Accountable Manager.
- Activate Cyclone Management Plan.
- If likely to be severe consider the closure of all operations.
- Prepare for possible flooding.
- Notify contractors and employees of proposed actions.
- Ensure personnel due to arrive to site are informed of delays or cancellations of flights.
- Notify suppliers of proposed action, if required.
- If medical emergency occurs and cannot evacuate by usual means, contact DFES via local police for assistance or RFDS.
- If cyclone hits site, evacuate persons to “cyclone evacuation points” in the camps.
- Check availability of tarpaulins with ERT.
- Consider call out of ERT to control damage if required.
- Refer to “Emergency Information Directory” for contact numbers.
- Notify Crisis Management Team Leader if required (Corporate Office) and determine regular briefing as required.
- Notify Contractor if contractor personnel are affected.
- Maintain accurate log of all events.

3.6.4 EXTERNAL HELP

- Mutual aid providers.
- FES/ St Johns.
- Bureau of meteorology (BOM).
- Refer to “Emergency Information Directory” for contact numbers.

3.7 MISSING PERSONNEL

NRR personnel at times travel or work in isolated areas. Travel management plans are used to track and to check on personnel. At times personnel travelling or working in isolated area have not checked in or may require assistance.

3.7.1 MAIN RISKS

- Injury to employees.
- Loss of company assets.
- Adverse impact on company reputation.
- Disruption to production.

3.7.2 ALARMS

- Two way radio communication.
- Mobile phone.

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- Satellite phone.
- SPOT notification.
- EPIRB.

3.7.3 RESPONSE

- Notify Accountable Manager.
- Attempt to contact party.
- Activate Emergency Management Plan and Duty cards (refer cover for location).
- Call out Emergency Response Teams (ERT) to assist if available or notify external emergency provider. Refer Emergency Contacts list for contact details.
- Use other employees to assist as required.
- Notify Crisis Management Team Leader if required (Corporate Office) and determine regular briefing as required.
- Notify hospital if potential of casualties.
- Notify Police.
- Notify Contractor if contractor personnel are affected.
- Initiate appropriate investigation (may need to maintain security of area until completed).
- Maintain accurate log of all events.

3.7.4 MISSING PERSON

- Stay with the vehicle, make vehicle as visible as possible (flagging tape, rags etc.).
- If lost on foot, do not continue to walk, find shade and wait for rescue.
- Erect shade or move under vehicle.
- Stay calm and conserve energy.
- Ration water supplies.
- Continue to try and make contact by radio (if not broken).

3.7.5 EXTERNAL HELP

- Mutual aid providers.
- FES/ St Johns.
- Refer to “Emergency Information Directory” for contact numbers.

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3.8 CHEMICAL SPILL / OIL SPILL

A release of a hazardous chemical or a reagent spill can have a significant impact. It can cause considerable environmental damage and (in some cases) result in hazardous vapors or dust which can affect people over a wide area, particularly those working down-wind of the release.

3.8.1 MAIN RISKS

- Injury to employees.
- Injury to employees responding to incident.
- Environmental impact.
- Impact to company image/ reputation (if significant environmental impact).

3.8.2 ALARMS

- Area evacuation.
- Fire alarms.
- Two way radio communication.

3.8.3 RESPONSE

- Identify type of spill and any potential for the spill to spread if required evacuate area under threat.
- Notify Accountable Manager.
- Call out Emergency Response Teams (ERT) (full breathing apparatus or respirators may be required) if available or notify external emergency provider. Refer Emergency Contacts list for contact details.
- Activate Emergency Management Plan and Duty cards (refer cover for location).
- Refer to Material Safety Data Sheet for further information.
- Secure area with ERT members or other site personnel.
- Account for all personnel onsite.
- Notify Crisis Management Team Leader (Corporate Office) and determine regular briefing as required.
- Notify site environmental department.
- Notify hospital if injury occurs.
- Notify Police (if potentially fatal).
- Notify Contractor if contractor infrastructure or personnel are affected.
- Notify Department of Environmental Protection (if environmental impact results).
- Maintain security of affected area(s).
- Initiate appropriate investigation (may need to maintain security of area until completed).
- Maintain accurate log of all events.

3.8.4 EXTERNAL HELP

- Mutual aid providers.
- FES.
- Refer to “Emergency Information Directory” for contact numbers.

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3.9 VEHICLE INCIDENT ONSITE /OFFSITE

Incidents involving vehicles onsite or offsite may require response from site personnel. The presence of leaking fuel and possibility of having to cut persons out using hydraulic cutting equipment may require an onsite Emergency Response Team or external response from police or FES.

An incident involving members of the public (e.g., unauthorised tourists) on NRR roads or NRR vehicles is likely to generate considerable public concern and could have a significant impact on the community and company image.

3.9.1 MAIN RISKS

- Injury to employees or other person/s.
- Impact on public /local community.
- Adverse impact on company reputation.

3.9.2 ALARMS

- Two way radio communication.
- Phones.

3.9.3 RESPONSE

- Notify Accountable Manager.
- Call out ERT if available or notify external emergency provider.
- Initiate appropriate emergency response (first aid/medical/fire/vehicle extrication).
- Secure area.
- Isolate any energy sources or contain any substances (e.g., power lines, gas, diesel or reagents).
- Activate Emergency Management Plan and Duty cards (refer cover for location) if required.
- Notify Crisis Management Team Leader (Corporate Office) and determine regular briefing as required.
- Call ambulance if required.
- Prepare for likely media interest.
- Notify environment department if an environmental impact results.
- Notify hospital if injury occurs.
- Notify Police.
- Maintain security of affected area(s).
- Initiate appropriate investigation (may need to maintain security of area until completed).
- Maintain accurate log of all events.

3.9.4 EXTERNAL HELP

- Mutual aid providers.
- FES.
- Refer to “Emergency Information Directory” for contact numbers.

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4. APPENDICES

4.1 EMERGENCY CONTACTS LIST

The emergency contacts list is to be developed by the relevant department or site and placed in place of this document. The below template is the minimum of what is required.

Site: Sawfish

Site Radio Channels: CH20

Site Emergency Contact information Medic Sat PhonePH: 0488823923

EMERGENCY

Police Borroloola Police station	8975 8770	000
Ambulance Borroloola Health Clinic	8975 8757	000
FES	8999 3473	000
Hospital Katherine	8973 9211	
RFDS	1800 733 768	
Care flight	8928 9777	
RFDS from satellite phone	08 8922 8888	
Other medical contact in area		

NRR SITE REPRESENTITIVES

NATHAN RAMM	GM MINING	0402 618 759
MICHEAL RAKUITA	PROJECT MANAGER	0477 733 741
DAVID WESLEY	ALT PROJECT MANAGER	0447 268 191
MARIO VORWERG	PROJECT SUPERINTENDENT	0439 987 090
PAUL HUMPHRIS	MAINTENANCE SUPERINTENDENT	0475 411 866
KRYSTEN ROBERTS	GM MARINE OPERATIONS	0419 044 936
LANCE SHEWARD	MARINE OPERATION	0488 622 142

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4.2 DRSABCD MANAGEMENT PLAN

DRSABCD Action Plan

In an emergency **call triple zero (000)** and ask for an ambulance

D DANGER

Ensure the area is safe for your self, others and the patient



R RESPONSE

Check for response—ask name—squeeze shoulders

No response

Response

Make comfortable

Monitor response



S SEND for help

Call triple zero (000) for an ambulance
or ask another person to make the call



A AIRWAY

Open mouth—if foreign material present
Place in recovery position
Clear airway with fingers



B BREATHING

Check for breathing—look, listen, feel

Not normal breathing

Start CPR

Normal breathing

Place in recovery position

Monitor breathing



C CPR

Start CPR—30 chest compressions : 2 breaths

Continue CPR until help arrives
or patient recovers



D DEFIBRILLATION

Apply defibrillator if available
and follow voice prompts



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