Emergency Response Plan

Talinga Operations & Water Treatment Facility

Review Record

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1. Introduction

The Site Emergency Response Plan (SERP) is designed to direct and guide the Site Emergency Response Team Leader (Site ERT Leader) and site Emergency Response Team (ERT) to respond effectively to site level emergencies and return the site to normal operations.

Further support is provided to our Operational Sites through the Emergency Response Framework (see Figure 1), specifically, the Group Emergency Management Plan (GEMP OEUP-1000-PLN-SAF-004) and our Crisis Management Plan (CMP ORG-CMP-PRO-001).

When a drilling or **work over** rig is on site, it is the responsibility of the Operations Superintendent and the Drilling Manager to ensure that appropriate information is exchanged such that the rig and site emergency response plans are linked for the duration of the drilling or **work over** programme as appropriate.

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2. SERP Activation & Escalation

When a site level emergency is declared, the site ERT Leader will activate this SERP and escalate where appropriate to internal and external parties (see Table 1). A toolkit is provided at the end of this SERP to help the site activate and appropriately escalate the site level emergency and to safely return the site to normal operations.

Table 1: Activation & Escalation

	Do	Check
Activate	Confirm Site ERT roles and responsibilities.	☐
	Initiate Basic Response • NO SECOND CASUALTY • PEOPLE BEFORE PLANT • KNOW YOUR CAPABILITIES • APPLY PRUDENCE OVER REACTION	☐
Escalate	Contact Emergency Services (if required), and provide the following: • Current situation (Nature of emergency, location of incident, missing persons) • Location of safe entry to site • Active/Isolated energy sources • Site hazards/hazardous areas • Quantity/Location of Dangerous Goods/Hazardous Substances • Contact information (fixed or mobile in case further information is required)	☐
	Contact Group Emergency Management Team (GEMT) Leader; provide following information: • Current situation (What has happened; What has been done so far; Are further resources required) • Potential escalation of emergency	☐

Table 2: Emergency Services Contacts

Emergency Services Contact		
Service	**Telephone Number**	**Response Time**
Doctor	Chinchilla Medical Centre **07 4662 7188** Miles Medical Centre **07 4627 1388 / 1037**	
Police	**000** (or 112 from a mobile phone - no signal) **07 4627 1222** (Miles)	
Fire	**000** (or 112 from a mobile phone - no signal **07 4627 1658** Miles	
Ambulance	**000** (or 112 from a mobile phone - no signal) **07 4662 7000** (Chinchilla Admin)	
Hospital	**07 4662 888** (Chinchilla) **07 4628 5600** (Chinchilla)	
SES	**132 500** **07 4662 1600** Head Quarters Dalby	
DME	**0419 888 575** Emergency 24 hr	
Poisons Info	**13 11 26**	
RFDS	**07 4654 1443** (Charleville) **07 4654 1233** (Back up)	
See Appendix B for the guide to calling 000		

Table 3: Location Specific Data

Location Specific Data		
Site Name	Talinga – Operations & Water Treatment Facility	
Site Address	4940 Kogan/Condamine rd, Chinchilla, 4413	
Site Grid Reference	56J 0236345 – 7023582	
Core Site Business	Gas	
Site Manager Contact Details **07 4558 2102** A/H 07 4558 2142	**Paul Koehler** 0488 764 332 08 8388 1748 (H)	**Mike Kelly** 0428 642 334 07 4622 5642
Primary Site Telephone No.	07 4558 2101	
Site Emergency Telephone No.	07 4626 8120 (pager)	
On Call Operator (emergency only)	(07) 4558 2190	
Fax No.	07 4558 2191	
Site Radio Channel	UHF 56	
Site Location and Accessibility Relevant to Local Community	**Item**	**Details**
	Nearest Town	Chinchilla
	Nearest Major Road	Kogan-Condamine Road
	Nearest Airport	Chinchilla

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Table 4: Critical Contact Information Internal

Internal - Denison Trough Operations				
Role	**Position**	**Person**	**Primary**	**Alternate**
GEMT Leader	General manager, QLD CSG	Martin Riley	**0428 185 392**	
Duty Manager			**0437 687 235**	
	GM CSG Delivery	Justin Post	**0488 089 063**	
	CSG Production Manager	Ed Connelly	**0429 073 583**	
	CSG Operations Manager	John Downey	**0428 185 392**	
	APLNG & CSG Water Manager	Neal Smith	**0400 717 187**	
Site ERT Leader (ERTL)	Site Superintendent	Paul Koehler Mike Kelly	**07 4558 2101**	0488 764 332 0428 642 334
Site ERT Members (ERTM) *Note: includes all personnel onsite, all rosters.*	Gas Plant Supervisor's Water Treatment Facility Supervisor's Admin Other members As required	John McNally Mathew Playsted Colin Hutchinson Chris Dunn Brad Green Colin Johnson Glen Gorton Nigel Stack Angela Clarke	07 4662 7120 07 4558 2170	0429 125 769 0438 366 019 0400 823 319
Land Holder Liaison	Land Holder Liaison Supervisor	Judy Green	**07 4672 6610**	0408 740 628

Table 5: Critical Contact Information External

External			
Service	**Address**	**Phone**	**Additional Information**
Queensland Gas Co	Switch (BH)	07 4627 7228	
	Control Room	0428 739 977	
	After Hours	0428 746 286	
APA	Switch (BH)	07 3323 6000	
	Control Room	07 3323 6111	
	After Hours	07 3323 6111	
	Emergency	1800 017 000	
	Wallumbilla Ph	07 4623 4388	
	Wallumbilla Fax	07 4623 4120	

Santos Roma	Business Hours	07 4622 2400	
	Fax	07 4622 3476	
Mosaic	Silver Springs Plant	07 4626 5348	
	Wallumbilla Plant	07 4623 4222	
Organisation	**Contact**	**Position**	**Telephone**
Office of the Water Supply Regulator	Drinking Water Hotline		1300 596 709
Western Downs Regional Council (WDRC)	Business Hours Contact	WDRC Utilities Office Max Henderson/ Terry Fagg	0428 761 228
	24 hour On Call Emergency Number	Miles Operator	07 4669 9000
Company	**Telephone**		**Telephone**
Waroo Water Services	0427 265 602 0428 265 602		2 x 29,000L with pump 50m hose with 3 inch camlock
Morvell's Transport	07 4622 2355		1 x 29,000L with pump 50m hose with 3 inch camlock
T&W Earthmoving	0427 274 510 (Wayne Collie) 0429 234 128 (Tim Collie)		2 x 29,000L with pump 50m hose with 3 inch camlock

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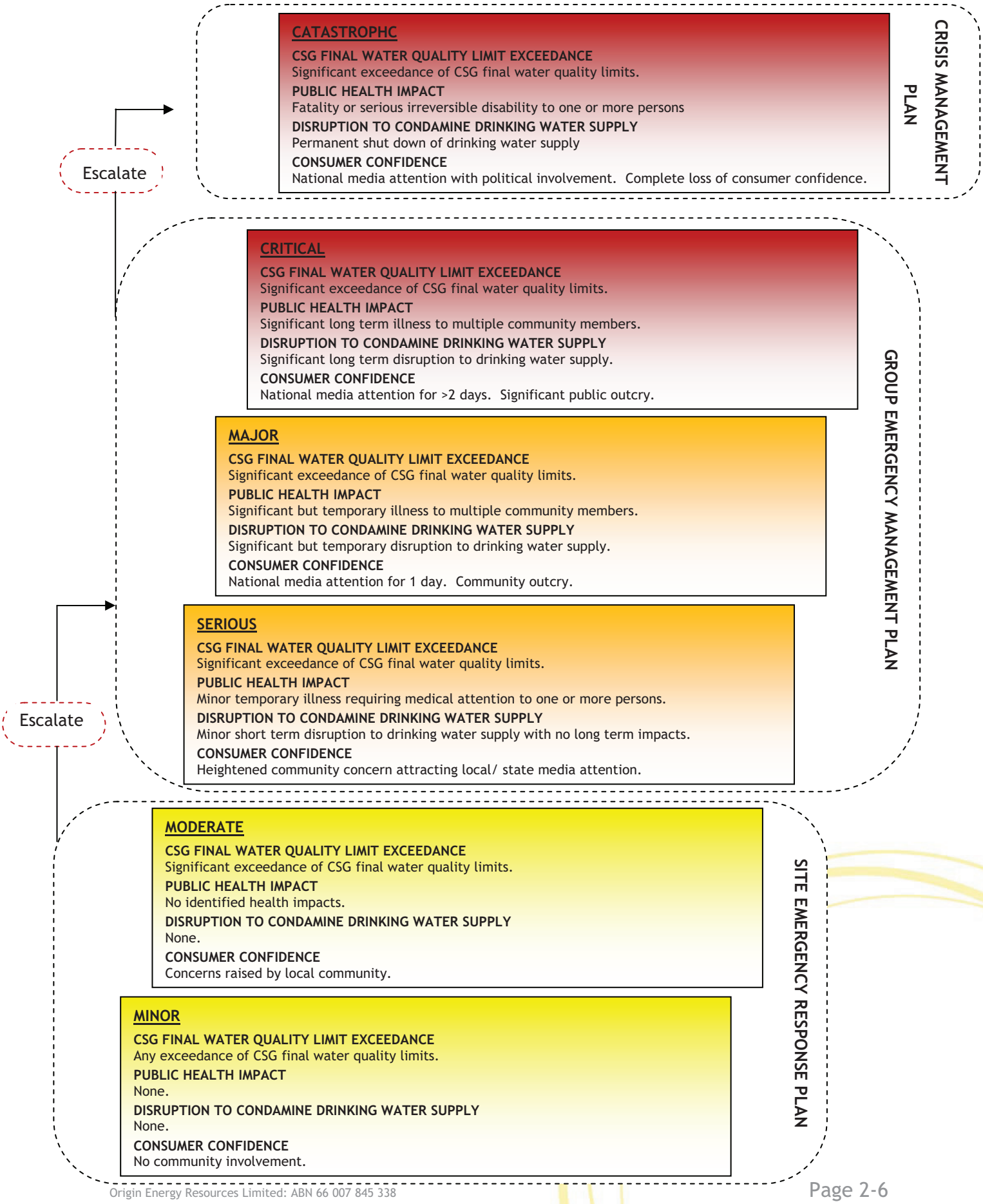
Figure 1: Emergency Escalation Framework

Figure 2: Public Health Risk Incident and Emergency Response Escalation Framework



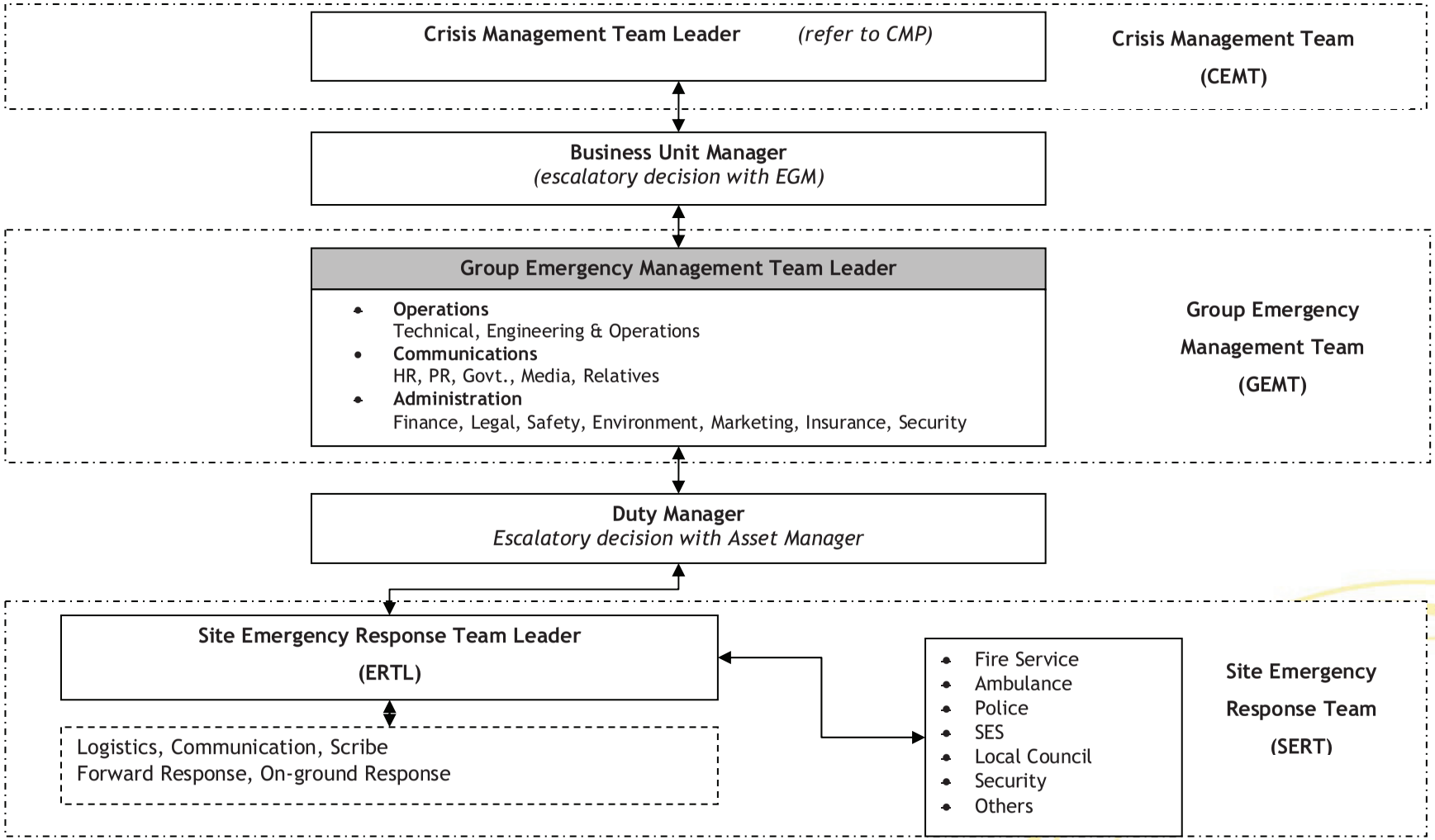


Figure 3: Emergency Escalation to Crisis Management

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3. Checklist of Pages

This folder should contain, **in this order**, beginning at the top:

Section	Pages	Rev No	Issue Date
Title Page	2	4	20/12/10
Section 1 Introduction	2	4	20/12/10
Section 2 SERP Activation & Escalation	8	4	20/12/10
Section 3 Checklist of Pages	2	4	20/12/10
Table of Contents	4	4	20/12/10
Section 4 Purpose	2	4	20/12/10
Section 5 Scope	2	4	20/12/10
Section 6 Site Description	4	4	20/12/10
Section 7 Communications	2	4	20/12/10
Section 8 Emergency Equipment	2	4	20/12/10
Section 9 Emergency Control	2	4	20/12/10
Section 10 Scenario Responses	2	4	20/12/10
Section 11 Review and Update	2	4	20/12/10
Section 12 Document Information and History	2	4	20/12/10
Section 13 Definitions	2	4	20/12/10
Appendix A - Dangerous Goods and Hazardous Substances Register	4	4	20/12/10
Appendix B - A Guide to 000	2	4	20/12/10
Appendix C - Regulatory Notification Requirement	2	4	20/12/10
Appendix D - RFDS & Emergency Helicopter	2	4	20/12/10
Appendix E - 30/30 Lightning Rule	2	4	20/12/10
Appendix F - Distribution List	2	4	20/12/10
Appendix G - Emergency Response Toolkit	34	4	20/12/10
Appendix H - Bomb Threat Check List	2	4	20/12/10
Appendix I - Water Treatment Facility Toolkit	14	4	20/12/10
Appendix J – Talinga Access Map	2	4	20/12/10

Any amendment to this document must include updates to the Table of Contents, Section 3. Checklist of Pages and Section 12. Document Information and History.

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Table of Contents

1. Introduction 1-1

2. SERP Activation & Escalation 2-1

3. Checklist of Pages 3-1

4. Purpose 4-1

5. Scope 5-1

6. Site Description 6-1

- 6.1 Talinga Facility 6-1
- 6.2 Talinga Water Treatment Plant 6-2
- 6.3 Operations Talinga Gas Plant 6-3
- 6.4 Emergency Command Centre 6-3
- 6.5 Dangerous Goods and Hazardous Substances 6-3
- 6.6 Confined Space Register 6-3
- 6.7 Roles and Responsibilities 6-4

7. Communications 7-1

- 7.1 Contact with Relatives 7-1
- 7.2 Emergency Awareness 7-1
- 7.3 Shift Changeover During an Emergency 7-2

8. Emergency Equipment 8-1

9. Emergency Control 9-1

- 9.1 Operations Shutdown Hierarchy 9-1
- 9.1 Operations Shutdown - Field 9-1
- 9.2 Raising the Alarm and Evacuating 9-2

10. Scenario Responses 10-1

- 10.1 Termination of Emergency 10-1
- 10.2 Post Emergency Actions 10-1
  - 10.2.1Incident Investigations 10-1
  - 10.2.2Recovery Actions 10-1
  - 10.2.3Post-Incident Clean-Up 10-1
- 10.3 Training 10-2
- 10.4 Drills and Exercises 10-2

11. Review and Update 11-1

12. Document Information and History 12-1

13. Definitions 13-1

List of Appendices

Appendix A Dangerous Goods and Hazardous Substances Register 1

Appendix B A Guide to 000 1

B.1. What is 000? 1
B.2. How 000 Works 1

Appendix C Regulatory Notification Requirements 1

Appendix D RFDS & Emergency Helicopter 1

Appendix E 30/30 Lightning Rule & Lightning Strike 1

Appendix F Distribution List 1

Appendix G Emergency Response Toolkit 1

G.1. Emergency Services Contact 2
G.2. Location Specific Data 3
G.3. Internal - Denison Trough Operations**Error! Bookmark not defined.Error! Bookmark not defined.**
G.4. External Contacts 5
G.5. Emergency Consideration Guide 6
G.6. Basic Emergency Response 7
G.7. Muster / Evacuation 8
G.8. Emergency Shutdown 9
G.9. Missing / Overdue Personnel Field 10
G.10. Medical Emergency 11
G.11. Medical Emergency - Snake Bite 12
G.12. Suspected Fatality 13
G.13. Rescue From Height 14
G.14. Rescue from Confined Space 15
G.15. Pollutant / Spill on Ground 16
G.16. Leak without Fire 17
G.17. Civil Disturbance / Criminal Activity 18
G.18. Bomb Threat 19
G.19. Major Structural / Mechanical Damage 20
G.20. Vehicle Accident 21
G.21. Fire Field Based 22
G.22. Fire - Plant 23
G.23. Fire - Buildings / Storage / Accommodation 24
G.24. Bushfire 25
G.25. Weather Related Incident 26

Appendix H Bomb Threat Check List 1

Appendix I Water Treatment Facility Toolkits 1

I.1. Public Health Risk Consequence Categories 1
I.2. Public Health Risk Incident and Emergency Response Matrix 2
I.3. Contamination of Feed Water 3
I.4. Treatment process failure resulting in exceedance of CSG final water quality limits 4
I.5. Exceedance of CSG final water quality limits 5
I.6. System failure resulting in loss of containment 6
I.7. Operational failure resulting in loss of containment 7
I.8. Pond failure leading to loss of containment 8
I.9. Small Spill Impermeable Ground 10
I.10. Large Spill Impermeable Ground 11
I.11. Chlorine Leak 12
I.12. Ammonia Gas Release 13

Appendix J Talinga Access Map 1

Table of Figures

Figure 1: Emergency Escalation Framework 2-5
Figure 2: Public Health Risk Incident and Emergency Response Escalation Framework 2-6
Figure 3: Emergency Escalation to Crisis Management 2-7
Figure 4: Location of Talinga Facility & Operations 6-1
Figure 5: Talinga Facility 6-2
Figure 6: Talinga Facility Dangerous Goods / Hazardous Substances Storage 2
Figure 7: Talinga Water Treatment Facility DG / Hazardous Substances Storage 3
Figure 8: Talinga Water Treatment Facility Chlorination Building 4

List of Tables

Table 1: Activation & Escalation 2-1
Table 2: Emergency Services Contacts 2-2
Table 3: Location Specific Data 2-2
Table 4: Critical Contact Information Internal 2-3
Table 5: Critical Contact Information External 2-3
Table 6: Emergency Response Process 4-1
Table 7: Emergency Roles and Responsibilities 6-4
Table 8: Communications Resources 7-1
Table 9: First Aid Equipment 8-1
Table 10: Fixed Gaseous Deluge 8-1

Table 11: Firewater and Foam 8-1
Table 12: Portable Fire Protection 8-2
Table 13: Safety Equipment 8-2
Table 14: Alarm Signals 9-2

4. Purpose

The purpose of this SERP is to describe the process to be followed to effectively manage site level emergencies. Table 5 outlines the Emergency Response Process.

Table 6: Emergency Response Process

People	Evacuate and muster (if deemed necessary). Account for all people and determine missing persons. Stop unauthorised access. Onsite response personnel MUST NOT fight High Voltage (HV) fires and only manage major fires using fixed fire protection (e.g. deluge). Fighting Low Voltage (LV) fires must only be done where appropriate isolations can be made first. **Provide a technical resource to the Emergency Services.**
Environment	For emergencies that are safe to manage, (such as small fires, leaks and medical first aid emergencies), trained people will be mobilised to control and contain the emergency to minimise the environmental impact.
Assets	Monitor automatic shutdown of the equipment or part thereof, or initiate manual shutdowns where it is safe to do so. Mobilise emergency services to intervene.
Reputation	Notify neighbours (if required).
Liability	All people responsible for responding to an emergency will be trained in this SERP. This SERP will be reviewed annually and updated as necessary. Exercises and drills will be conducted annually in accordance with a schedule set by the Plant Manager. A variety of potential scenarios will be used when conducting drills.

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5. Scope

An emergency is defined as a major deviation in normal operations requiring specific steps to recover and return the activity to normal.

This SERP applies to all site level emergencies and to all people on the site including employees, contractors and visitors.

Emergency scenarios and specific responses covered in this plan include:

- Basic Response;
- Muster and Evacuation;
- Emergency Shutdown;
- Missing/Overdue Personnel;
- Medical Emergency;
  - Snake Bite;
- Suspected Fatality;
- Rescue - Heights/Confined Space/Electrical;
- Pollutant/Spill on ground;
- Environmental - Pond Rupture
- Leak without fire;
- Security Alert - Civil Disturbance/Criminal Activity;
- Security Alert - Bomb Threat;
- Major Structural/Mechanical Failure;
- Vehicle Accident;
- Fire
  - Field based
  - Plant
  - Buildings / Storage
- Explosion;
- Bushfire;
- Weather Related Incident.
- WTF - Contamination of feed water
- WTF - Exceeding CSG final quality limits
- WTF - System loss of containment
- WTF - Operational loss of containment
- WTF - Pond loss of containment
- WTF - Small spills on Impermeable Ground
- WTF - Large spills on Impermeable Ground
- WTF - Spills within the WTF Building
- WTF - Chlorine Gas Leak
- WTF - Ammonia Gas release

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6. Site Description

6.1 Talinga Facility

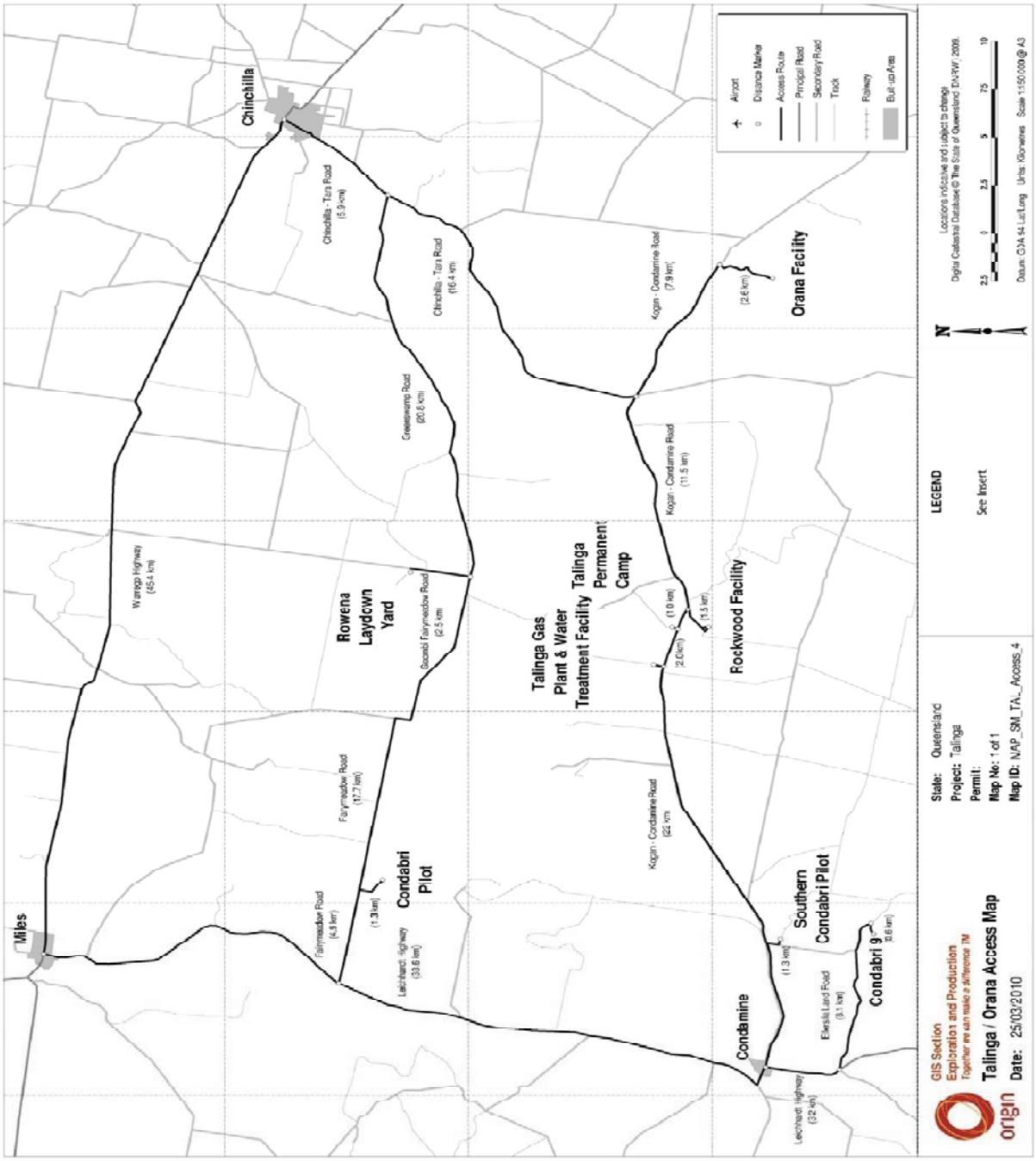

Figure 4: Location of Talinga Facility & Operations

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The Talinga Facility is located approx 35kms South West of Chinchilla and the key infrastructure consist of:

- Well Sites/Heads
- Gathering lines
- Gas Plant
- Site Office, Workshops and warehouse
- Water Treatment Facility

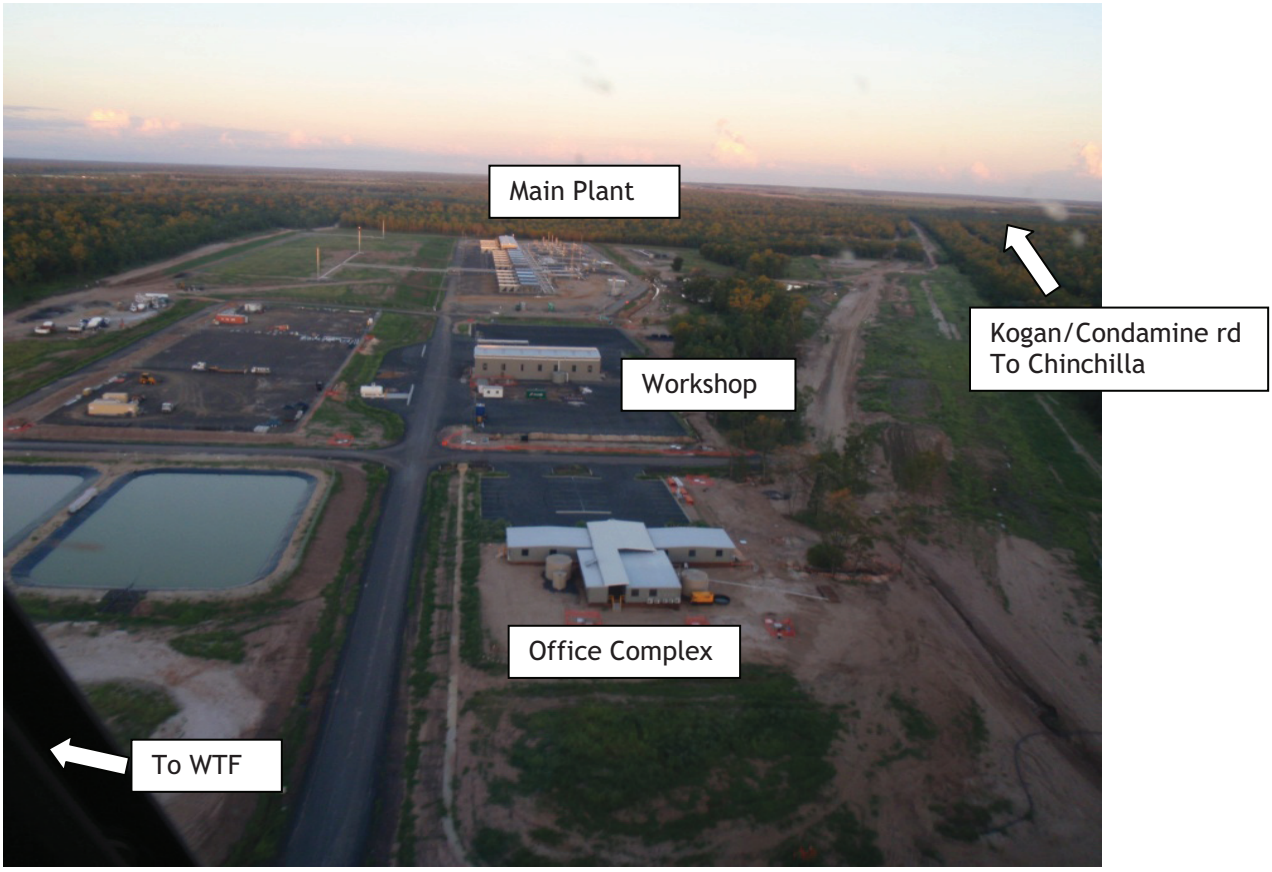

Figure 5: Talinga Facility

6.2 Talinga Water Treatment Plant

The Talinga Water Treatment Facility processes produced water from the production process, the facility consists of:

- Bunded chemical storage area
- Main treatment building
- Chlorination Building
- Chemical store
- Retention Ponds
- Power generation and fuel gas systems

6.3 Operations Talinga Gas Plant

The processing plant is designed for the delivery of gas into the Berwyndale-Kenya trunkline, the well gas arriving at the battery limit to the facility will be saturated with water.

The gas flows from the gathering system into the inlet separators which remove any free water in the raw gas stream. The water separated and removed in the process flow via the separator line to the Water Treatment Facility feed pond to be processed by the Water Treatment Facility.

The control architecture for the Talinga Gas Plant consists of a central DCS for “off-skid” control and plant monitoring, a DCS integrated or separate PLC for Emergency Shutdown (ESD).

6.4 Emergency Command Centre

The Primary emergency command centre is located in the main meeting room, emergency response packs have been created and are located at reception and an in the Water Treatment Plant office

6.5 Dangerous Goods and Hazardous Substances

This section may be only necessary for sites with Dangerous goods – reference the onsite Hazardous Subs manifests and Appendix A will be included/excluded based on this.

6.6 Confined Space Register

The Talinga Facility and Water Treatment Plant have a Confined Space Register identifying classifications 1 and 2 Confined Spaces.

Refer to the site documentation for the details of the registers.

6.7 Roles and Responsibilities

Table 7: Emergency Roles and Responsibilities

Roles & Responsibilities include:	
First Responder (depending on situation)	Raise the alarm. Muster (if applicable) and wait for instruction by Site ERT Leader. Report the need for assistance and intentions, give indication of next contact. Check the area to ensure no one is injured - do so safely. Provide regular updates. Provide names of all personnel including those injured or unaccounted for. Provide first aid in accordance with training and ability to any injured persons. If safe and appropriate to do so, shut down any equipment.
Site ERT Leader (Duty Superintendent /supervisor / Operator)	Assess the incident and determine if the SERP is to be activated. Ensure all activities are recorded. Escalate to Emergency services, if required. Notify and provide regular updates to the Duty Manager including: • Emergency details • Human threat, injuries, fatalities. • Environmental threat & damage. • Supply Threat. Liaise with GEMT leader as directed. Coordinate the onsite response. Direct Site ERT Members in the response relevant to the scenario. Evacuate personnel & casualties (if required). Account for all personnel (including visitors & contractors). Shutdown the plant or wells as necessary and safe to do so. Control access to the site. Ensure a log is maintained of emergency events, actions, communications.
Site ERT Members	Respond to the situation as directed by the Site ERT Leader. Where required undertake the roles and responsibilities of: • Scribe – document incoming/outgoing information and maintain incident log sheet • Communications – provide support for external/internal communications. • Logistics – coordinating movement/delivery of personnel and equipment resources. • Forward command – liaison person located with the response team at the incident site. • Search & rescue team – frontline team conducting tactical response at the incident site.

If the Site ERT Leader is unable to undertake their responsibilities an alternate or delegate Site ERT Leader must be appointed to ensure the Site ERT continues to function.

In the event of a Critical or Major incident, additional resources and support can be requested as necessary by the Site ERT Leader from the Origin Emergency Framework.

The roles and responsibilities for the emergency teams are addressed in the GEMP and CMP.

7. Communications

The emergency response contact details for our emergency response personnel, emergency services and other critical contact details are in the Emergency Response Toolkit at the end of this SERP.

Table 8 shows the communication resources available onsite that can be used in an emergency.

Table 8: Communications Resources

Communication resources - Talinga	
Two-way Radios	Hand held radios – UHF Ch56 with "man down" push button UHF in each vehicle.
Phones	Phone system at Talinga CTP Note: Minimal mobile phone coverage available at the site
Fax	Fax at Talinga Office & Water Treatment Plant

First responders can initiate calls to emergency services. However, if they call emergency services they must notify the Site ERT Leader. Once notified, the Site ERT Leader is responsible for all internal and external communications.

A guide to calling 000 is provided in Appendix B.

Where required, the Site ERT Leader can nominate a Site ERT Member to manage the calls resulting from the event and to screen and effectively route such calls to the correct recipient.

Contact with local landowners can be initiated by the Site ERT Leader through the land liaison officer, if required.

Notifications required to regulatory authorities must be carried out as soon as practicable after the emergency situation is over, by the Duty Manager in consultation with the Site ERT Leader. See Appendix C for Regulator Notification Requirements.

Stakeholder communications will be handled by the GEMT and are addressed in the GEMP.

7.1 Contact with Relatives

In the event of a fatality or serious injury or other emergency, advice to relatives about the condition of a person or about the incident will be provided by the management team or a trained person.

Counselling for relatives of a deceased or seriously injured person will be arranged through the HR Group within Origin Energy GEMT.

During an emergency or after an emergency, the Emergency Team Leader will refer any queries or concerns from relatives to the GEMT or HR group as appropriate.

7.2 Emergency Awareness

The Operations Supervisor will ensure that all persons arriving on site (including employees, contractors and visitors) are familiar with:

- the hazards to which they may be exposed,
- appropriate safety measures to be applied while on site, and,
- what is expected of them during an emergency.

7.3 Shift Changeover During an Emergency

Shift changeovers are required to be efficient and effective to ensure the continuity of emergency control objectives.

Responsibilities

The Emergency Response Team Leader is responsible for the formal shift change over of Emergency Response personnel involved in the emergency. This will be achieved by:

- Thoroughly planning the changeover process.
- Avoiding changeovers during critical periods.
- Having changeovers in daylight, where possible.
- Briefing incoming personnel of the current situation, (refer shift change-over checklist).
- Ensuring immediate departure of the person being relieved, once the replacement assumes their role.

8. Emergency Equipment

The emergency equipment on site is listed in Tables 8 to 12.

Table 9: First Aid Equipment

Note: Talinga Site has a full time Paramedic - refer to the site register for a full listing of equipment

First Aid Equipment – Talinga Facility		
Qty	**Equipment**	**Location**
1	First Aid Room including stocks of: Dressings; Tapes; Bandaids Skin preparation & Antiseptics IV & IMI Equipment General medical equipment; Infection control & linen; Thermal treatments Oxygen & Airway Management; ECG Equipment & Accessories;	Site Office
1	Ambulance	Site Office
	First Aid kits	Each Vehicle
	First Aid Kits	WTF Office, Workshop; TGP & WTF PCR
1	Basket stretcher	Control Room

Table 10: Fixed Gaseous Deluge

Fire Fighting Equipment - Fixed gaseous deluge		
Equipment	**Location**	**Comments / Details**
FM200 Fire suppression	MCC Switch rooms	TGP & WTF

Table 11: Firewater and Foam

Fire Fighting Equipment - Firewater and foam - Talinga Facility		
Equipment	**Location**	**Comments / Details**
Hose Reel's	Various locations around the facility	
Water Storage	Pond	

Fire Fighting Equipment - Firewater and foam -Talinga Water Treatment Plant		
Equipment	**Location**	**Comments / Details**
Foam Hose Reel's & dosing system	Various locations around the facility	
Water Storage	Pond	

Table 12: Portable Fire Protection

Fire Fighting Equipment - portable fire protection		
Equipment	**Location**	**Comments / Details**
Portable fire protection equipment is provided at / in: • Talinga Facility, Talinga Office, Talinga Workshop, Talinga Water Treatment Plant & Office (Talinga Village) • All work trailers & mobile plant (Origin Supplied vehicles). • The equipment consists of Fire Extinguishers (Co2, Foam, Dry Chem) and fire blankets. • Refer to the Site Register's for location's on site and currency details.		

Table 13: Safety Equipment

Safety Equipment - Talinga Facility		
QTY	**Equipment**	**Location**
1	Fire Trailer	
1	Pipeline Emergency repair trailer	
1	Spill clean up kit's	
4	6 litre Drager BA kits	Water Treatment Facility Office
1	Life preserver ring	WTF Ponds, remote pond
1	Sala Harness & Twin tail Lanyard	Workshop
Notes:		

9. Emergency Control

9.1 Operations Shutdown Hierarchy

The Gas plant and the power station have separate shutdown & ESD systems.

The Gas Plant has 3 types of shutdown:

1. Package Shutdown (XSD)
    a. Each package has a local ESD push button plus the ability to ESD from the control panel
    b. Depending on the unit this will also initiate a process shutdown
2. Process Shutdown (PSD)
    a. Process shutdown consists of a complete shutdown of the gas plant (excluding the plant inlet, flares, power station & compressed air system)
    b. PSD is initiated by:
        i. Electronic hand switch on the DCS HMI
        ii. Low instrument ait pressure trip
        iii. Sales Gas pipeline pressure high rate of change.
3. Emergency Shutdown (ESD)
    a. ESD is a shutdown of the entire plant (excluding the plant inlet, flares, power station & compressed air system)
    b. The site evacuation alarm is manually initiated.
    c. The ESD is initiated by:
        i. Activation of a manual push button in the process control room
        ii. Activation of a fire detector on the compressor packages.

9.1 Operations Shutdown - Field

Some or all of the Field equipment of the Origin Energy CSG Limited may need to be shut down for periods of time during an emergency due to a variety of factors.

If this occurs the Emergency Controller will, through the field supervisor, co-ordinate the exercise and contact the relevant authorities. The contact numbers for the Authorities are listed in **Section 6** of this manual.

The equipment which may need to be shut down is:

- CSG Wells & Facilities
- Gathering Systems

Isolation and/or depressurisation of equipment can be conducted locally or by citect.

The equipment that may need to be shut down is:

- Compressor Packages
- Separator vessels
- Generator Sets
- Dehydration Packages

9.2 Raising the Alarm and Evacuating

To raise the alarm, one or more of the following can be used:

- in person;
- radio (channel 56);
- mobile phone;
- landline phone;
- manual call points; and
- evacuation siren.

When the alarm is raised, the following must be done:

- stop all work and make sure the worksite is safe (i.e. isolate cylinders, de-energise equipment, stop truck load-out operations etc.);
- if a vehicle is to be left or abandoned, pull over and park it in a safe area to ensure that access and egress to any parts of the site is not impeded, switch off the vehicle and leave the keys in the ignition;
- plan a safe route to the muster area and avoid movement through unsafe areas; and
- ensure any visitors are escorted to the muster area.

The primary muster point is located at the Office Carpark If the primary muster point is compromised an alternate muster point's are located at the front gate and adjacent to the Workshop.

When assembled at the muster point:

- the Site ERT Leader will account for all people through the muster point controllers;
- if a person is determined missing, the Site ERT Leader must assist Emergency Services in a search and rescue, only if and when it is safe to so;
- all people must standby at the muster point until stood-down or instructed to evacuate the site; and
- if instructed to evacuate, direction will be given on evacuation route and evacuation points.

Table 14: Alarm Signals

Alarm Signals on site	
Sound	**Situation**
– – – – – – – – – –	Emergency Alert - Process (single tone repeating)
_____	Muster / Evacuation Siren - flat (flat siren) in the gas plant
Air horn	Muster / Evacuation at the Office/workshop
_____	Muster / Evacuation at the WTF (air horn) in the plant
Verbal “Evacuate”	Verbal Evacuation
Verbal “All Clear”	All Clear

10. Scenario Responses

Please see the Emergency Response Toolkit (at the end of this document) for the tables outlining the responses for situations classified as emergencies.

10.1 Termination of Emergency

The emergency status must be maintained until instruction is given by the Site ERT Leader that the emergency is over. All involved parties are to be informed that the situation has been controlled and the emergency is over.

10.2 Post Emergency Actions

10.2.1 Incident Investigations

An incident investigation must be done as soon as practicable after the emergency, using the Emergency Response Site Log (see Emergency Response Toolkit). The following steps should be considered:

- it is important that the incident area is not disturbed before the investigation is completed;
- care should be taken to ensure evidence is preserved and not disturbed, e.g. take photographs, store site emergency response logs, make sketches of the incident area and do not wipe off white boards. If necessary, collect samples and data for future analysis (e.g. weather, wind direction etc); and
- if a serious injury or fatality has occurred, work may not be resumed and the area is must be barricaded off to avoid disturbance

10.2.2 Recovery Actions

Prior to resuming work, do the following:

- check plant and equipment for structural, physical and electrical/instrumentation integrity;
- ensure all active fire protection measures are restored (e.g. foam replaced);
- replenish emergency response equipment as required; and
- replace or return any third party emergency equipment.

In addition, consider the following points:

- people who were involved may require counselling, depending on the nature of the incident;
- people should be debriefed, with all relevant information captured for a ‘lessons learnt’;
- conduct a tool box talk on specific start up activities before restarting work; and
- emergency response plans and training may need to be revised before resuming normal activities.

10.2.3 Post-Incident Clean-Up

Post incident clean up must be done using the following guidelines:

- conduct an initial inspection to identify the extent of equipment and plant damage;
- assess potential decontamination needs (e.g. removal of chemicals/oil/foam from plant/equipment, contaminated soil etc);
- store all contaminated material in proper containers, pending offsite disposal by licensed hazardous waste contractors;

- repair or replace damaged equipment and plant;
- inspect and test affected equipment; and
- attend to commissioning and site reinstatement.

10.3 Training

All people must be given specific instructions and training on how to respond to emergencies and use the emergency equipment available at Talinga.

10.4 Drills and Exercises

Drills and exercises must be carried out to ensure that everyone is familiar with the actions to be taken in the event of an emergency situation. Responses to scenarios will be discussed in conjunction with toolbox talks at site.

Schedule for sites can be viewed on the intranet.

Drills or exercises may include escalation processes to involving GEMT/CMT.

The effectiveness of each exercise is to be evaluated and documented in conjunction with the SERP.

Where inadequacies are identified they should be addressed through assigning appropriate corrective actions and ensuring that the actions are performed and closed.

11. Review and Update

The SERP will be reviewed and updated as necessary in response to one or more of the following:

- every year
- when major changes which may affect the Emergency Response coordination or capabilities have occurred
- following routine testing of the plan
- after an actual emergency or
- before installing and commissioning new plant and equipment.

During the review, the following aspects are also to be considered:

- lessons learned from an emergency
- changes in legal requirements
- improvements to effectiveness in terms of response strategy, management and communication
- developments in the latest techniques and technology in handling an emergency
- changes to, or movement of people within our organisation
- changes to contact numbers of internal and external organisations and
- revisions to existing, or availability of, emergency management tools and equipment and resource suppliers and contractors.

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12. Document Information and History

PROCESS OWNER

Position	Name
QLD CSG - Operations Manager	John Downey

DOCUMENT APPROVAL REQUIREMENTS

Phone Number amendments	All other amendments
Site Superintendent	Operations Manager

STAKEHOLDERS AND OTHER CONTRIBUTORS

Position	Name
Office of Water Supply Regulator, Department of Environment and Resource Management	Anita Packwood
Western Downs Regional Council	Max Henderson
Talinga Superintendent	Paul Koehler
Talinga Superintendent	Mike Kelly

ASSOCIATED DOCUMENTS

Title	Document Number (if applicable)
Emergency Response Directive	ORG-HSE-DVE-003
Risk Management Directive	ORG-RSK-DVE-001
Crisis Management Plan	ORG-CMP-PRO-001
Group Emergency Management Plan	OEUP-1000-PLN-SAF-004
Production & Operations Safety Management Plan – Talinga Development	OEUP-Q2600-PLN-SAF-001
Talinga Water Treatment Facility Public Health Risk Register	LC_Ops_Register_TWTF Public Health Risk Reg (Accessed via Risk Register Intranet)
Incident Management Directive	ORG-HSE-DVE-006
Risk Management Directive	ORG-RISK-DVE-001
Origin Risk Toolkit	ORG-RSK-TOOL-001

Origin Energy Resources Limited: ABN 66 007 845 338
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DOCUMENT HISTORY

Rev	Date	Detailed Changes made in Document	Prepared	Checked	Approved
0		Initial Document	P McClelland		
0/1	Dec 04	Contacts; Sect 18; Formatting	A. Walter	O. Hobbs	M. Riley
0/2	May 05	Contacts; Sect 3.7, 3.8, 4.1	A. Walter	O. Hobbs	M. Riley
0/3	Jul 06	Contacts; 6.1 - 6.6	A. Walter	O. Hobbs	M. Riley
0/4	Dec 06	Contacts; 6.1 - 6.6; Pond Breach procedure	A. Walter /. O. Morrison	O. Hobbs	M. Riley
0/5	Oct 07	Contacts; 6.1 - 6.6	A. Walter	O. Hobbs	M. Riley
0/6	Dec 07	Contacts; 6.1 - 6.6	A. Walter	O. Hobbs	M. Riley
1.0	Aug 08	Document Reformat			
2.0	Jul 09	Organisational structure change; Emergency contacts; Document re-format	A. Walter	J. Post	M. Riley
3.0	Jul 10	Organisational structure change; Emergency contacts; Sections 4,6 & 7	A. Walter	J. Downey	J. Post
Document re-numbered from OEUP-Q2600-PLN-SAF-002 to OEUP-Q4400-PLN-SAF-003					
4	20/12/10	Document reformat; Water Treatment Plant included	Jason. Kuzmanovski		

13. Definitions

Term	Definition
AC	Alternative Current
ATC	Alcohol Type Concentrate
CMP	Crisis Management Plan
CMT	Crisis Management Team
CO_2	Carbon Dioxide
DC	Direct Current
DCP	Dry Chemical Powder
ECO	Emergency Control Organisation
ERT	Emergency Response Team
ESD	Emergency Shutdown Device
GEMP	Group Emergency Management Plan
GEMT	Group Emergency Management Team
ha	Hectare
HSE	Health Safety and Environment
HV	High Voltage
km	Kilometre
kV	Kilovolts
L	Litre
LV	Low Voltage
Ml	Megalitre
MMC	Motor Site Control Building
MSDS	Material Safety Data Sheet
MW	Megawatt
OCIS	Origin's Collective Intelligence System
SERP	Site Emergency Response Plan

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Appendix A Dangerous Goods and Hazardous Substances Register

Talinga Facility (note: refer also to the site manifest for updates)

Substance Name	UN Number	Approx Volume	Location
Sodium Hypochlorite	1791	20,000 L	WTF Main Bund (T-071)
Sodium Hydroxide	1824	20,000 L	WTF Main Bund (T-072)
Sodium Bisulphate	2693	20,000 L	WTF Main Bund (T-073)
Hydrochloric Acid	1789	45,000 L	WTF Main Bund (T-077A)
Sodium Hydroxide	1824	2,600 L	WTF Main Bund (T-082)
Sodium Bisulphate	2693	2,600 L	WTF SRO Dosing (T-083)
Biocide	3265	2,000 L	WTF PRO Dosing (T-084)
Hydrochloric Acid	1789	2,600 L	WTF SRO Dosing (T-087)
Magnesium	3264	10,000L L	WTF Main Bund
Chlorine	1017	6 x 920 kg	WTF Chlorination Area
Anhydrous Ammonia	1005	2,000 kg	WTF Chlorination Area
Biocide		8 x 1000 L IBC	WTF Chemical Storage
Diesel Tank	N/A	16,100 L	Access road between Office & Workshop
Oxygen G-type cylinder	1072	3 x 8.9 cubic m	Warehouse Cylinder storage
Acetylene G-type cylinder	1001	2 x 7 cubic m	Warehouse Cylinder storage
Argon SG type cylinder	1006	2 x 10.5 cubic m	Warehouse Cylinder storage
Nitrogen D-type cylinder	1066	3 x 1.7 cubic m	Warehouse Cylinder storage
Nitrogen G-type cylinder	1066	4 x 8.1 cubic m	Warehouse Cylinder storage
Flammable Goods Site Safe		250 Litre	

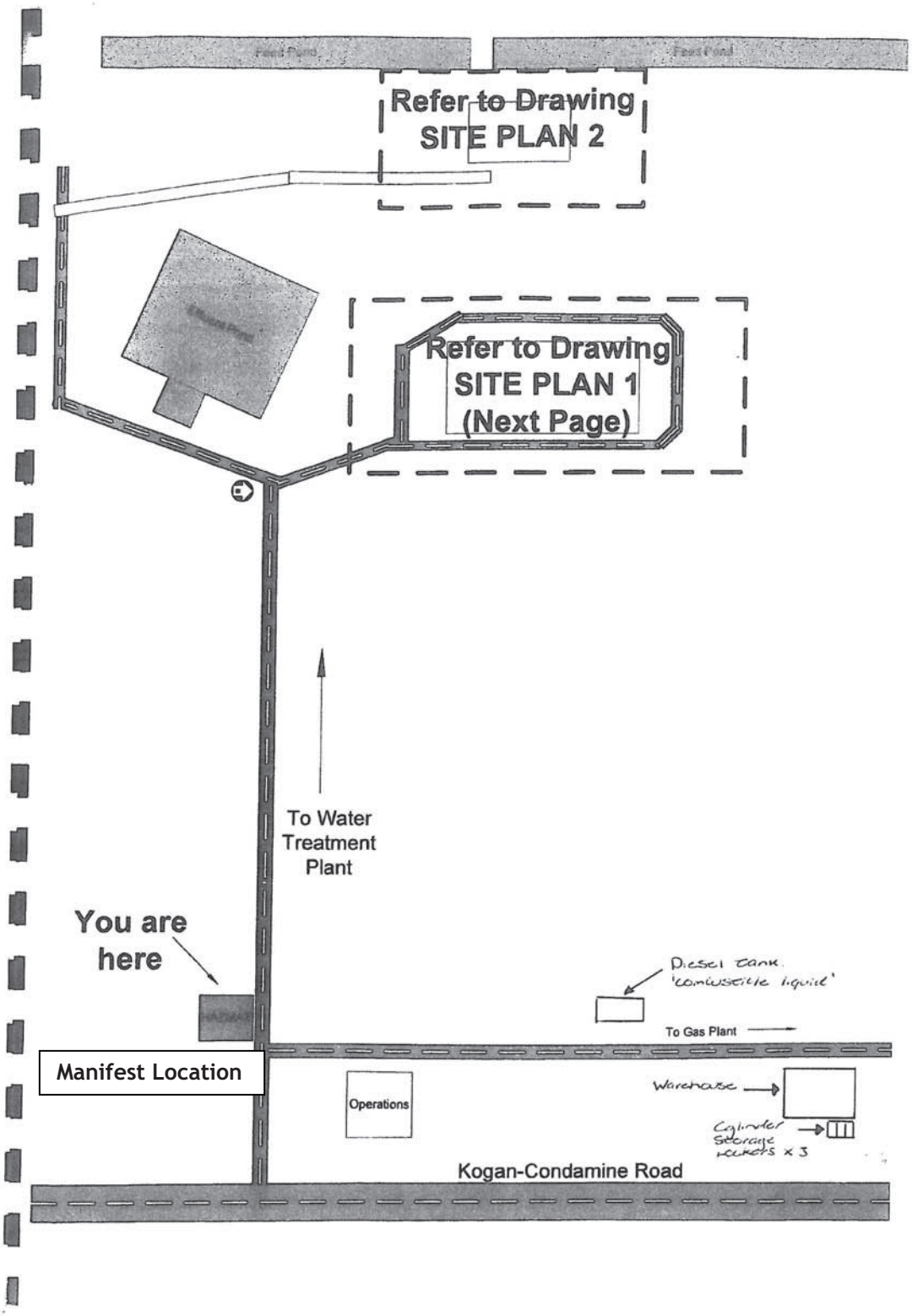

Figure 6: Talinga Facility Dangerous Goods / Hazardous Substances Storage

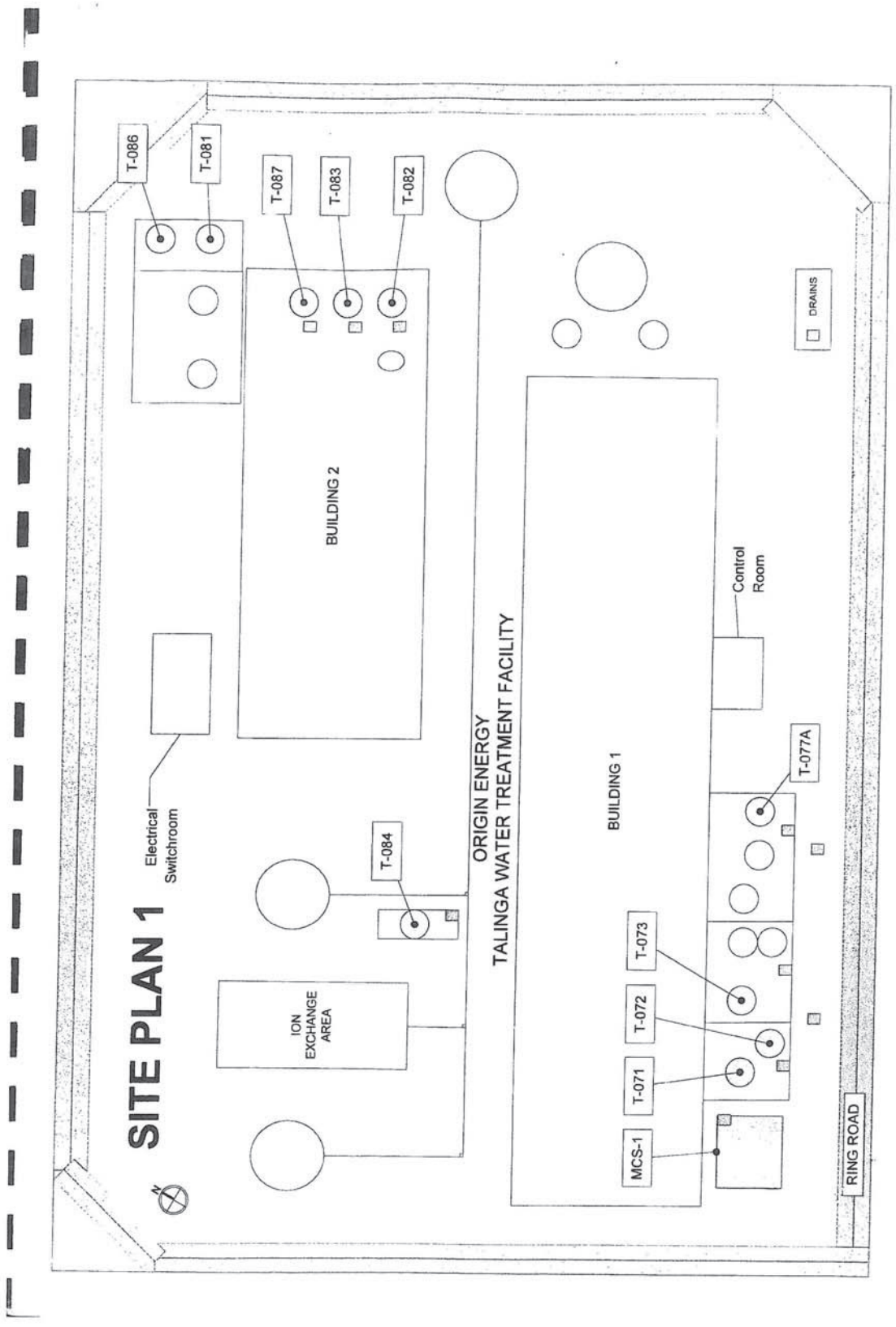

Figure 7: Talinga Water Treatment Facility DG / Hazardous Substances Storage

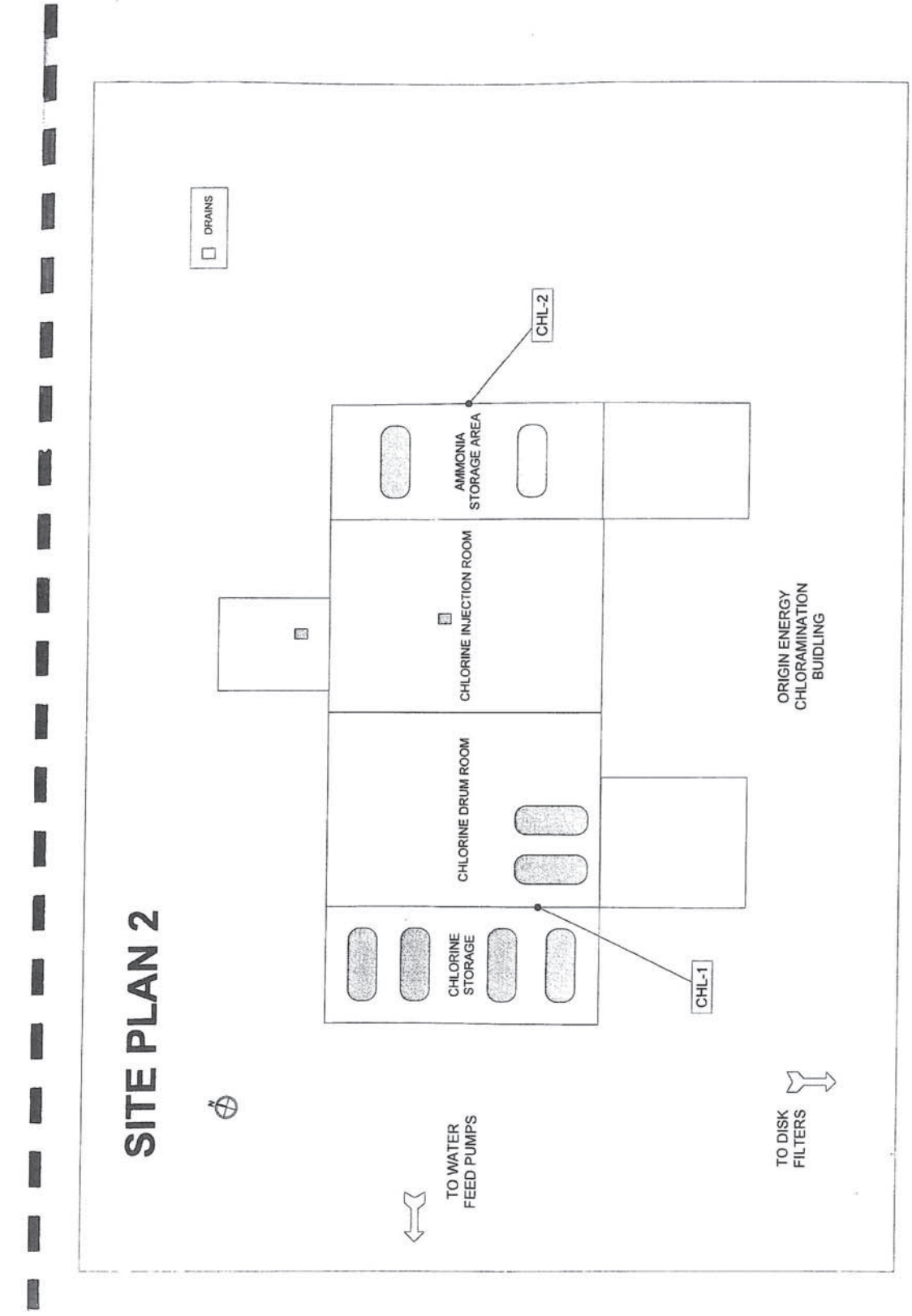

Figure 8: Talinga Water Treatment Facility Chlorination Building

Appendix B A Guide to 000

B.1. What is 000?

000 is a free NATIONAL emergency hotline service to contact the police, ambulance or fire services in case of urgent time critical, life threatening situations or other emergencies.

Callers must be specific and patient. Assist 000 emergency operators by allowing them to guide you through the call and you can help by providing clear, accurate information that will save time.

90% of calls are answered within five seconds and 99% of calls within 10 seconds. In unplanned events such as a major bushfire, there may be a short delay due to a high number of calls.

When you dial the emergency call services, the most important thing to remember is to stay focused, stay relevant and stay on the line.

112 CAN BE USED AS A SUBSTITUTE FOR 000 WHEN CALLING FROM A MOBILE PHONE THAT DOES NOT HAVE A SIGNAL

B.2. How 000 Works

000 calls are answered by an emergency operator who will ask the question: 'which service do you require: police, ambulance or fire brigade?'

You will be connected to the appropriate communications centre which is staffed 24 hours a day with skilled emergency operators.

They will ask relevant questions, and arrange an appropriate response from a local station or from other services (e.g. police, fire or ambulance etc.).

It is not necessary to make multiple calls if you require several services as the first emergency service you speak to has direct links with the other services and will pass the information on to the other emergency services that may be required.

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Appendix C Regulatory Notification Requirements

Qld Workplace Health and Safety **Department of Justice and Attorney-General**	**What Incidents are to be Reported**
	You are required by law to report incidents in the workplace where there is: • Serious bodily injury • Work caused illness • Dangerous event • Dangerous electrical event • Serious electrical incident • Major accident under the Dangerous Goods Safety Management Act 2001 Further detail on the above can be found at: http://www.deir.qld.gov.au/workplace/incidents/incidents/notify/index.htm
	How to Report an Incident
	Use the online form: (http://www.deir.qld.gov.au/workplace/incidents/incidents/notify-form/index.htm) or a downloaded version to notify the Department of Justice and Attorney-General of an incident. *Note: If multiple persons are injured you will be required to use the downloaded approved form to accommodate additional information about each injured person.* If the incident involves a death, immediate notification must be made by phoning 1300 369 915. Notification on the approved form is required within 24 hours of being aware of a notifiable incident happening. A Workplace Health and Safety Queensland Inspector is on call 24 hours per day.
Qld Government **Department of Environment and Resource Management (EPA)**	**Environmental Management**
	If a pollution incident occurs, all necessary action should be taken to minimise the size and any adverse effects of the release. If adequate resources are not available to contain the release and if it threatens public health, property or the environment, the Qld Fire Brigades should be contacted for emergency assistance - phone **000** (**112** from a mobile phone). Pollution incidents posing material harm to the environment should be notified to DERM's Pollution Hotline on **1300 130 372**. Incidents posing a public health risk for downstream drinking water supply should be reported to OWSR's Drinking Water Hotline (1300 596 709) and Western Downs Regional Council (0428 761 228 or 4669 9000).

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Appendix D RFDS & Emergency Helicopter

Royal Flying Doctor Service

The Flying Doctor can be used to:

- Obtain medical advice
- Obtain prescriptions by phone
- Fly to site to treat injuries

Phone: 07 4654 1443 (Charleville)

Backup: 07 4654 1233

HF Radio frequency: 126.35 Mhz VHF

Airstrip Location

The closest airstrip location is Chinchilla Airport

Helicopter Use

Requests for helicopter use must be coordinated through the Operations Superintendents.

Preferred Provider:

MI Helicopters - Roma & Hervey Bay

Mobile: 0427 561 141

Phone: 1800 600 345

Phone: 07 4125 1599

Alternative Provider:

Webb Helicopters – Emerald

Phone: 07 4987 5400

Information to be given to the helicopter services provider at the time of the request:

- A Purchase order number
- The specific and exact location of the landing area described as longitude and latitude (for example, Roadway near wellsite; Landing area at longitude 153 degrees, 02 minutes, 10.6 seconds east, Latitude 25 degrees, 44 minutes, 31.7 seconds south)
- Local landmarks and/or hazards (for example, cleared area, slightly sloping group towards the west; low point drain 50 m south)
- The preferred destination (for example, Roma Hospital)
- The nature of the requirement (for example, medical evacuation of one injured person with crushed ribs and one non-injured person)

Designated Helicopter Landing Area - Talinga

As directed by the Emergency Response Team Leader

Talinga Coordinates

Latitude: -26.8846

Longitude: 130.3458

Grid Reference: 56J 0236345 – 7023582

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Appendix E 30/30 Lightning Rule & Lightning Strike

30/30 Lightning Rule

The most important principle of lightning safety is to remember that no place outside is safe when lightning storms are within ten (10) kilometres.

Storms are considered 'local' when they are within a ten (10) kilometre radius. Because lightning is able to strike many kilometres from the thunderstorm itself, long standoff distances are required to help in minimising the risk of personal injury.

One of the best rules of thumb for gauging the threat of lightning is the '30/30 Rule'.

If the time between seeing a flash of lightning and hearing thunder is less than 30 seconds, head for shelter immediately.

It is estimated that for every three (3) seconds of a delay between a lightning flash and thunder equates to a distance of approximately one (1) kilometre away (therefore, where there is 30 seconds between a flash of lightning and the sound of thunder the lightning activity is approximately ten [10]kilometres away).

Although the '30/30' rule can be useful, it cannot be used until after the first lightning strike, so is it important to be alert to changes in sky conditions in order to pre-empt any storm developing overhead.

After the last lightning or lightning, remember to stay safely inside for 30 minutes

Lightning Strike

1. Normally weather likely to cause a lightning strike will be obvious.
2. In the event of such weather the Field Supervisor will take appropriate action to minimise any damage from lightning strike. Advise the Duty Manager
3. No person is to be allowed near or on tanks or other steel structures
4. All persons are to remain indoors until the threat of lightning is gone
5. After the storm has passed co-opt whatever staff are available and make an immediate inspection of the plant looking for any signs of leakage or other malfunctions
6. Respond to any leakage as detailed in the Gas Leak section of this plan
7. Check the integrity of the plant buildings
8. Check computer systems to ensure that they are still functioning correctly
9. Check the Well heads for any well head problems
10. Check the well head supply and line delivery pressure for indications of leakage
11. Any significant system failures are to be reported. There may be a need to engage a maintenance crew if there is damage that is not able to be fixed.

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Appendix F Distribution List

No.	Name	Position, Organisation	Location
1.	Operations Manager	John Downey	Brisbane JOX
2.	CSG Delivery Production Manager	Ed Connelly	Brisbane JOX
3.	QLD CSG HSE Manager	Phil Egerton	Brisbane JOX
4.	Operations Superintendent Talinga	Paul Koehler Mike Kelly	Talinga
5.	Field Safety Supervisor, Talinga	Nicole Wellspring Ka-lok Siu	Talinga
6.	Chinchilla Police Station	c/- Talinga Operations Superintendent	Talinga
7.	Chinchilla Ambulance Station	c/- Talinga Operations Superintendent	Talinga
8.	Chinchilla Fire Station	c/- Talinga Operations Superintendent	Talinga
9.	Chinchilla Emergency Services	c/- Talinga Operations Superintendent	Talinga
10.	Water Superintendant	Paul Byster Adrian Woehrle	Talinga Talinga
11.	Western Downs Regional Council	Group Manager Utilities	Engineering Customer Service Centre, PO Box 551, Dalby, Qld 4405
12.	Department of Environment and Resource Management	Director Office of Water Supply Regulator	GPO BOX 2454, Brisbane, QLD 4001
13.	Department of Environment and Resource Management	Manager Petroleum and Gas Unit Strategic Projects	GPO BOX 2454, Brisbane, QLD 4001
14.			
15.			

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Appendix G Emergency Response Toolkit

	Do	Check
Activate	Confirm Site ERT roles and responsibilities	☐
	Initiate Basic Response • **NO SECOND CASUALTY** • **PEOPLE BEFORE PLANT** • **KNOW YOUR CAPABILITIES** • **APPLY PRUDENT OVER REACTION**	☐
Escalate	Contact Emergency Services (if required), provide the following: • Current situation (Nature of emergency, location of incident, missing persons) • Location of zones and site access • Active/Isolated energy sources • Site hazards/hazardous areas • Quantity/Location of Dangerous Goods/Hazardous Substances • Contact information (fixed or mobile in case further information is required)	☐
	Contact GEMT Leader; provide following information: • Current situation (What has happened; What has been done so far; Are further resources required) • Potential escalation of emergency	☐

G.1. Emergency Services Contact

Service	Telephone Number	Response Time
Doctor	Chinchilla Medical Centre **07 4662 7188** Miles Medical Centre **07 4627 1388 / 1037**	
Police	**000** (or 112 from a mobile phone - no signal) **07 4627 1222** (Miles)	
Fire	**000** (or 112 from a mobile phone - no signal **07 4627 1658** Miles	
Ambulance	**000** (or 112 from a mobile phone - no signal) **07 4662 7000** (Chinchilla Admin)	
Hospital	**07 4662 888** (Chinchilla) **07 4628 5600** (Chinchilla)	
SES	**132 500** **07 4662 1600** Head Quaters Dalby	
DME	**0419 888 575** Emergency 24 hr	
Poisons Info	**13 11 26**	
RFDS	**07 4654 1443** (Charleville) **07 4654 1233** (Back up)	

See Appendix B for the guide to calling 000

G.2. Location Specific Data		
Site Name	**Talinga - Operations & Water Treatment Facility**	
Site Address	**4940 Kogan/Condamine Rd, Chinchilla, 4413**	
Site Grid Reference	**56J 0236345 - 7023582**	
Core Site Business	**Gas**	
Site Manager Contact Details **07 4558 2102** A/H 07 4558 2142	**Paul Koehler** 0488 764 332 08 8388 1748 (H)	**Mike Kelly** 0428 642 334 07 4622 5642
Primary Site Telephone No.	**07 4558 2101**	
Site Emergency Telephone No.	**07 4626 8120 (pager)**	
On Call Operator (emergency only)	(07) 4558 2190	
Fax No.	07 4558 2191	
Site Radio Channel	**UHF 56**	
Site Location and Accessibility Relevant to Local Community	**Item**	**Details**
	Nearest Town	**Chinchilla**
	Nearest Major Road	**Kogan-Condamine Road**
	Nearest Airport	**Chinchilla**

G.3. Internal - Denison Trough Operations

Role	Position	Person	Primary	Alternate
GEMT Leader	General manager, QLD CSG	Martin Riley	**0428 185 392**	
Duty Manager			**0437 687 235**	
	GM CSG Delivery	Justin Post	**0488 089 063**	
	CSG Production Manager	Ed Connelly	**0429 073 583**	
	CSG Operations Manager	John Downey	**0428 185 392**	
	APLNG & CSG Water Manager	Neal Smith	**0400 717 187**	
Site ERT Leader (ERTL)	Site Superintendent	Paul Koehler Mike Kelly	**07 4558 2101**	0488 764 332 0428 642 334
Site ERT Members (ERTM) *Note: includes all personnel onsite, all rosters.*	Gas Plant Supervisor's Water Treatment Facility Supervisor's Admin Other members As required	John McNally Mathew Playsted Colin Hutchinson Chris Dunn Brad Green Colin Johnson Glen Gorton Nigel Stack Angela Clarke	07 4662 7120 07 4558 2170	0429 125 769 0438 366 019 0400 823 319
Land Holder Liaison	Land Holder Liaison Supervisor	Judy Green	**07 4672 6610**	0408 740 628

G.4. External Contacts

Service	Address	Phone	Additional Information
Queensland Gas Co	Control Room	0428 739 977	
	After Hours	0428 746 286	
APA	Control Room	07 3323 6111	
	After Hours	07 3323 6111	
	Emergency	1800 017 000	
	Wallumbilla Ph	07 4623 4388	
Santos Roma	Business Hours	07 4622 2400	
	Fax	07 4622 3476	
Mosaic	Silver Springs Plant	07 4626 5348	
	Wallumbilla Plant	07 4623 4222	
Organisation	**Contact**	**Position**	**Telephone**
Office of the Water Supply Regulator	Drinking Water Hotline		1300 596 709
Western Downs Regional Council (WDRC)	Business Hours Contact	WDRC Utilities Office Max Henderson/ Terry Fagg	0428 761 228
	24 hour On Call Emergency Number	Miles Operator	07 4669 9000
Company	**Telephone**		**Telephone**
Waroo Water Services	0427 265 602 0428 265 602		2 x 29,000L with pump 50m hose with 3 inch camlock
Morvell's Transport	07 4622 2355		1 x 29,000L with pump 50m hose with 3 inch camlock
T&W Earthmoving	0427 274 510 (Wayne Collie) 0429 234 128 (Tim Collie)		2 x 29,000L with pump 50m hose with 3 inch camlock

G.5. Emergency Consideration Guide

Impacts On	General Considerations Include		Impacts On	General Considerations Include	
People: Staff and Contractors	• Death • Injury(s) • Staff Morale	• Coroners' requirements movement of body • Notification to family/relatives - Police • Effect on other staff morale • Collection of personal effects • Trauma Counselling • Next of kin advice and details, how, by whom • Evacuation location - provision of assistance • Counselling for other staff • Collection of personal items • OHS investigation • Trauma counselling • Provide regular information to non-involved persons • Follow up arrangements	**Environment**	• Impacts • Resources • Legal Obligations	• On site • Off site • Contained or spreading • Sufficient available • Are additional resources from Origin or another location required. • Arrange Group Emergency Response Team Leader to notify
Operations:	• Options	• Is safe shut down possible • Disruption to supply/production • Impact on other sites • Alternative operations • By pass possible? • Temporary repairs possible?	**Public**	• Access to Area • Media	• Restrict Access • Restrict because of Safety Issues • Dealing with enquiries • Media Statements • Arrival at site, who/how to deal • Advise staff not able to talk to media
Notifications:	• Origin Energy • Contractors • Landholders	• Co-ordinate thru Duty Manager and Group Emergency Response Team Leader • Co-ordinate Contractors' notifications thru Duty Manager • Advise contractors all media requests to Origin Energy • Advise surrounding landholders.			

G.6. Basic Emergency Response	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
First Responder	**Site ERT Leader**	**Site ERT Members**
INITIAL RESPONSE **Do not put yourself at risk.** • Remove yourself and others from danger; • Activate ESD/isolate equipment as necessary if safe to do so; • Provide First Aid to any injured persons, as required and if qualified to do so; • Raise the alarm (report location, type and extent of incident) by radio or telephone to Site ERT Leader (if applicable);	**INITIAL RESPONSE** **Do not put yourself or others at risk.** • Account for all personnel (including visitors & contractors). • Assess the incident and determine if the SERP is to be activated. • Initiate the Emergency Response Team. • Utilise the onsite Paramedic. • Escalate to Emergency services, if required. • Ensure a log is maintained of emergency events, actions, communications. • Contact Duty Manager.	**INITIAL RESPONSE** **Do not put yourself at risk.** • Undertake first response within levels of training and own ability if able to do so safely. • Assist with the muster process. • Undertake actions as directed by the Site Emergency Team Leader.
ONGOING RESPONSE • Provide names of all personnel including those injured or unaccounted for. • Provide regular updates max 5 mins. • Follow directions from the Site Emergency Team Leader.	**ONGOING RESPONSE** • Coordinate the onsite response. • Control access to the site. • Direct Site ERT Members in the response relevant to the scenario. • Provide regular updates to the Duty Manager including: • Situation Details, Human threat, injuries, fatalities, Environmental threat & damage, Supply Threat. • Liaise with GEMT leader as directed. • Evacuate personnel & casualties (if required). • Shutdown the plant or wells as necessary and safe to do so.	**ONGOING RESPONSE** • Take on the roles of Scribe, Logistics, communications as necessary. • Render assistance as part of the site emergency response team within levels of training and own ability as instructed by the Site Emergency Response Team Leader.
RECOVERY • Assist with the recovery phase of the emergency as directed by the Site Emergency Team Leader.	**RECOVERY** • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1. 10.2 & 10.3 are completed. • Log the incident into OCIS with any remedial actions. • Provide a de-brief to the personnel onsite.	**RECOVERY** • Assist with the recovery phase of the emergency as directed by the Site Emergency Team Leader.

G.7. Muster / Evacuation	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Account for all personnel (including visitors & contractors).
• Confirm the reason for the emergency alarm to be activated.
• Assess the incident and determine if the SERP is to be activated.
• Initiate search for missing persons if required.
	INITIAL RESPONSE
	• Assist with the muster and identification of all personnel.
		Do not put yourself at risk.
		
		Following a Muster:
		• All work permits are immediately cancelled and require re-validation
		• No machines are to be started in the hazardous area.
		• All ancillary equipment in use to be shut down and made safe.
		• Main Facility muster point's are located at:
		  ○ Primary - bottom end of the office car park
		  ○ Alternate - Outside the workshop or at the main gate.
		• Water Treatment Plant
		  ○ Primary - at the entrance road to the plant.
		  ○ Alternate - adjacent the water storage tanks.

ONGOING RESPONCE When escalated to an emergency, • Initiate the SERP • Evacuate the site if required based on the type of emergency. • Notify the Duty Manager • All personnel in the field are to be notified (via radio). • Refer to the appropriate scenario for the ongoing emergency response.	**ONGOING RESPONSE** • Take on the roles of Scribe, Logistics, communications as necessary. • Render assistance as part of the site emergency response team within levels of training and own ability as instructed by the Site Emergency Response Team Leader. • Assist with the search and rescue for any missing personnel, only and if safe to do so.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.8. Emergency Shutdown	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**
INITIATE BASIC RESPONSE • Establish the reason for the emergency shutdown alarm to be activated. • Initiate a Muster. • Account for all personnel (including visitors & contractors). • Assess the incident and determine if the SERP is to be activated. • Initiate search for missing persons if required.	**INITIAL RESPONSE** • Assist with the muster and identification of all personnel. • Assist with emergency shutdown of equipment if safe to do so.	**Do not put yourself at risk.** Emergency shutdown is a means to control and eliminate a hazardous situation from arising by isolation and / or depressurisation. Isolation and / or depressurisation of equipment can be conducted locally on the equipment or remotely from the control room. **Refer to Section 9. for Emergency Shutdown details at each facility.**
ONGOING RESPONCE When escalated to an emergency, • Notify the Duty Manager • All personnel in the field are to be notified (via radio). • Evacuate the site if required based on the type of emergency. • Escalate to Emergency services, if required. • Refer to the appropriate scenario for the ongoing emergency response.	**ONGOING RESPONSE** • As directed by the ERTL	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.9. Missing / Overdue Personnel Field	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**
INITIATE BASIC RESPONSE • Obtain information on time and location of last sighting. • Attempt to establish communication with missing person. • Activate SERP • Initiate search and rescue operations. • Despatch ERT Member to last known location. • Ensure all activities are recorded.	**INITIAL RESPONSE** • Assist with the attempts to make contact with the missing person. • Undertake Site ERT Member roles as directed, Scribe, Communications, Logistics. • Assist with the search and rescue for any missing personnel, only and if safe to do so.	**Do not put yourself at risk.** At 0900, 1100, 1300, 1500 & 1700 hours, and every 2 hours thereafter as required, all personnel working in the field are required to report in to the XXXX by Radio or phone. The person receiving the call is to log the call on the Safety Call In register the person's name and whereabouts. Time frames for no response to call in. • 10 mins past call in time, attempt to make contact. • 30 mins past call in time, notify Supervisor (ERT Leader). • Ensure the availability of accurate maps for efficient tracking of locations. *Note: If Police are required to initiate search & rescue plans, they will assume control of the situation*
ONGOING RESPONCE • Maintain contact with the ERT Member undertaking the search - if not able to be located. • Initiate Search & Rescue with Emergency Services • Notify the Duty Manager. • Coordinate the Search & Rescue process the Emergency Services & Duty Manager / GEMT Leader.	**ONGOING RESPONSE** • ERT Member undertaking the Search, provide regular updates on the situation to the ERTL.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.10. Medical Emergency	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the medical emergency.
  ○ Name / names of the person.
  ○ Nature of Illness / Injury and First Aid administered.
  ○ Type and special conditions for transport.
• Activate SERP based on the level of injury.
• Paramedic mobilised.
• Initiate contact with emergency services.
• Ensure all activities are recorded.
	INITIAL RESPONSE
	• Assist with the attempts to make contact with the missing person.
	• Provide first aid treatment within own ability and training.
	• Paramedic mobilised.
	• Undertake Site ERT Member roles as directed, Scribe, Communications, Logistics.
		Do not put yourself at risk.
		Medical Emergencies fall into three categories:
		• Minor Medical Emergencies (dealt with on-site by trained first aider);
		• Medical Emergencies or injuries requiring more than first aid (dealt with by Injune Hospital) and where prescription drugs are issued; or
		• Critical or life threatening Medical Emergencies where immediate evacuation of the patient is required.
		Avoid exposure to injury by others and yourself.
		Prevent further injury to the victim, this may involve partial or total shutdown or any equipment or plant
		Refer to Appendix D for details on the RFDS and Helicopter use.
		Refer to Appendix E for the Ambulance meeting points.
		Electric Shock:
		• A difibrilator may be required.
		• Ensure all electrical equipment is isolated before rescue attempt.
		• Carry out emergency resuscitation if trained and necessary.

ONGOING RESPONCE • Notify the Duty Manager. • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency. • Escalate & seek assistance from the Duty Manager & GEMT as necessary.	**ONGOING RESPONSE** • Activate the local Airstrip landing procedure if required.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite regarding the Emergency.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

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G.11. Medical Emergency - Snake Bite	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the emergency.
  ○ Name of the person.
  ○ First Aid administered.
  ○ Type and special conditions for transport.
• Activate SERP based on the level of injury.
• Paramedic mobilised.
• Initiate contact with emergency services.
• Ensure all activities are recorded.
	INITIAL RESPONSE
	• Assist with the attempts to make contact with the missing person.
	• Undertake Site ERT Member roles as directed, Scribe, Communications, Logistics.
	• Provide first aid treatment within own ability and training.
		Do not put yourself at risk.
		Life threatening effects from a snake bite aren't usually seen for a few hours but can appear in minutes.
		What to look for:
		• Fang marks
		• Headache, difficulty breathing.
		• Nausea and vomiting
		• Stomach pain
		• Swollen glands in the armpits & groin.
		• Weakness, collapse
		Calm the person and keep them still.
		Don't wash or suck the bite or use a tourniquet.
		Put a pressure bandage over the bite area and call for assistance.
		Put pressure on the bite using your hands
		If bitten on a limb, apply a bandage or cloth approx 10-15cm wide upwards form the fingers or toes, firm but not to tight.
		Keep the limb still by using a splint
		Leave the splint or bandage on until reaching the hospital.
		If person is unconscious, check breathing & pulse and apply CPR.

ONGOING RESPONCE • Notify the Duty Manager. • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency. • Escalate & seek assistance from the Duty Manager & GEMT as necessary.	**ONGOING RESPONSE** • Activate the local Airstrip landing procedure if required. • Provide assistance for emergency services to locate injured person.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.12. Suspected Fatality	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the emergency.
  ○ Name of the person.
  ○ First Aid administered.
  ○ Type and special conditions for transport.
• Activate SERP.
• Paramedic mobilised.
• Initiate contact with emergency services.
• Ensure all activities are recorded.
• Notify the Duty Manager & GEMT
	INITIAL RESPONSE
	• Provide first Aid / CPR as necessary.
	• Undertake Site ERT Member roles as directed, Scribe, Communications, Logistics.
		Do not put yourself at risk.
		
		Consider shutting down the facility
		If the first aider has commenced treating, then treatment should continue until he/she is either physically unable to continue or the patient is pronounced dead by a Doctor / Paramedic.
		Confirmation of fatality not to come from a First Aider.
		Cordon off the area and ensure it is safe to enter.
		Do not disturb the scene of death.
		Quarantine the site and agree investigation requirements.
		When authorised to do so arrange to have the victim transported to the location instructed.
		Consider counselling for all persons involved.

ONGOING RESPONCE • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency. • Escalate & seek assistance from the Duty Manager & GEMT as necessary.	**ONGOING RESPONSE** • Assist with isolation of the scene / area. • Provide updates to the ERTL	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions identified. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.13. Rescue From Height	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the emergency and status of the rescue plan.
  ○ Name of the person.
  ○ Location.
  ○ Nature & extent of injury.
• Muster the site, - Activate SERP.
• Mobilise Paramedic & ERT Members
• Review rescue options with ERT Member on the scene.
• Initiate contact with emergency services if required.
• Ensure all activities are recorded.
• Notify the Duty Manager.
	INITIAL RESPONSE
	• Attempt to establish and maintain contact with the injured person.
	• Assess the nature and extent of the injury.
	• Provide information to the ERTL.
	• Assess rescue options
	• Initiate pre-determined rescue plan
	• Undertake Site ERT Member roles as directed, Scribe, Communications, Logistics.
	•
		Do not put yourself at risk.
		A rescue plan is required for each working at height activity.
		Emergency response equipment may be required to be located at the point of entry of the confined space.
		Persons performing work at heights should never work alone.
		EWP on site.
		The specialist contractors if used will have rescue procedures and plans in place specific to the work being undertaken and the location / area conditions of the work.

ONGOING RESPONCE • Maintain contact with the ERT Member. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency. • Escalate & seek assistance from the Duty Manager & GEMT as necessary.	**ONGOING RESPONSE** • Provide updates to the ERTL max 5 mins. • Prepare to receive emergency services onsite based on the condition of the injured person.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS & any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.14. Rescue from Confined Space	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the emergency and status of the rescue plan.
  ○ Name of the person.
  ○ Location.
  ○ Nature & extent of injury.
• Muster the site, - Activate SERP.
• Mobilise Paramedic & ERT Members.
• Initiate contact with emergency services.
• Ensure all activities are recorded.
• Notify the Duty Manager.
	INITIAL RESPONSE
	• Assist the Contractors standby person to implement the Contractors rescue plan if safe to do so.
	• Attempt to establish and maintain contact with the injured person.
	• Assess the nature and extent of the injury.
	• Provide information to the ERTL.
	• Undertake Site ERT Member roles as directed, Scribe, Communications, Logistics.
		Do not put yourself at risk.
		Never attempt to undertake a rescue from confined space rescue without the appropriate training, equipment and verification of the atmosphere.
		Confined Space registers exist for all sites.
		Class 1 Confined space access is not undertaken by Origin Energy personnel.
		A rescue plan is required for each confined space entry.
		Emergency response equipment may be required to be located at the point of entry of the confined space.
		Work being undertaken in Class 1 confined space will be performed by external specialist contractors.
		The specialist contractors will have rescue procedures and plans in place specific to the work being undertaken and the location / area conditions of the work.

ONGOING RESPONCE • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency. • Escalate & seek assistance from the Duty Manager & GEMT as necessary.	**ONGOING RESPONSE** • Provide updates to the ERTL max 5 mins. • Prepare to receive emergency services onsite based on the condition of the injured person.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS & any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.15. Pollutant / Spill on Ground	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**
INITIATE BASIC RESPONSE • Obtain details of the incident. ○ Source, Extent (size), Likely direction of spread. • Establish the level of spill and potential impact. **Based on level of spill:** • Activate SERP. • Ensure plant is shutdown as appropriate • Ensure all personnel have been accounted for. • Initiate contact with emergency services. • Notify the Duty Manager	**INITIAL RESPONSE** • Assess the area of the spill for potential hazards. • Update the ERTL at regular intervals. • Isolate the source of the spill if possible. • Use spill kit if available. • Undertake Site ERT Member roles as directed, Scribe, Communications, Logistics.	**Do not put yourself at risk.** Always pay attention to fire and health hazards Activate containment operations immediately to prevent spill from reaching a surface water course or ground water. **Points to Remember** • Activate containment operations immediately • Do not allow vehicles to run over spill saturated areas. • Do not flush the spill down clean drains on areas or other inlets. • Do not use mechanical excavators on areas with free oil on the surface • Containment and recovery is easier on land than on water. • Contain & recover at the source. **Materials include** Artificial and / or Natural sorbents, Spades & Rakes, Temporary storage drums of bags. **Clean up** • Retrieve as much as possible with sorbents • Permeable ground - break up remaining patch's with a rake to aerate the soil • Remove contaminated subsoil to reduce transfer to ground water.
ONGOING RESPONCE • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency. • Escalate & seek assistance from the Duty Manager & GEMT as necessary.	**ONGOING RESPONSE** • Assist with the clean up as directed by the ERTL.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS & remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.16. Leak without Fire	Duty Manager: 0437 687 235 Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**
INITIATE BASIC RESPONSE • Obtain details of the incident. ○ Source, Extent (size), wind direction. • Activate general alarm & muster. • Establish if the leak can be isolated at the source without risk. • Prepare to isolate parts of the plant. • Ensure all personnel have been accounted for. • Activate SERP based on the level of incident. • Initiate contact with emergency services. • Notify the Duty Manager.	**INITIAL RESPONSE** • Isolate the leak at the source if able to do so without risk. • Maintain communication with the ERTL with regular updates. • Muster as required. • Undertake Site ERT Member roles as directed, Scribe, Communications, Logistics.	**Do not put yourself at risk.** Pay particular attention to the wind direction. Refer to the - Muster & Evacuation Scenario. For total ESD of plant refer to appendix H.3 Emergency Shutdown. Shutdown all potential ignition sources Isolate leak and depressurise to flare Monitor bleed down of leak and keep all non -essential personnel and ignition sources away from the hazardous area.

ONGOING RESPONCE
• Maintain contact with the first responder.
• Maintain contact with and take advise from the Duty Manager.
• Use the Emergency Team for activities during the emergency.
• Escalate & seek assistance from the Duty Manager & GEMT as necessary.
	ONGOING RESPONSE
	As directed:
	  ○ Use spill kits.
	  ○ Undertake isolation of plant.
	  ○ Control the hazardous zone using barricades.	

RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions identified. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.17. Civil Disturbance / Criminal Activity	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the emergency.
  ○ Number of people.
  ○ Location.
  ○ Damage or type of protest.
• Assess the need to activate the SERP.
• Muster the site if appropriate.
• Make contact with the Police.
• Notify the Duty Manager.
	INITIAL RESPONSE
	• Muster if required.
	• Always avoid physical confrontation.
	• Provide updates to the ERTL.
	• Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
		Do not put yourself at risk.
		Unauthorised Entry:
		• In the event the site is occupied or subject to unauthorised entry ask to see identification and permission to enter.
		
		Always avoid physical confrontation.
		
		Consider plant ESD if necessary to secure the site.
		
		Contact Police to deal with the situation.
		
		Keep away from those involved until Police arrive.

ONGOING RESPONCE • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Consider ESD of the plant / plants.	**ONGOING RESPONSE** • As directed by the ERTL.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions identified. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.18. Bomb Threat	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the threat.
  ○ Number of people.
  ○ Location.
  ○ Damage or type of protest.
• Assess the need to activate the SERP.
• Muster & Evacuate the site if appropriate.
• Consider ESD of the plant.
• Make contact with the Police.
• Notify the Duty Manager.
	INITIAL RESPONSE
	• Muster if required.
	• Provide updates to the ERTL.
	• Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
		Do not put yourself at risk.
		Under no circumstances attempt to apprehend the saboteur(s) or disarm any explosive device.
		If threat made by phone, person receiving the call should use the **Bomb Threat checklist** in appendix I following this section.
		If safe to do so, the ESD of plant may be able to be conducted.
		Otherwise evacuate the area

ONGOING RESPONCE • Establish if incident can be handled onsite. • Ensure all activities are recorded. • Maintain contact with and take advise from the Duty Manager.	**ONGOING RESPONSE** • As directed by the ERTL	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions identified. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.19. Major Structural / Mechanical Damage	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the incident.
  ○ Location.
  ○ Damage or type of failure.
  ○ Any injuries to personnel
• Initiate Muster.
• Consider ESD of the plant.
• Ensure all activities are recorded.
• Initiate contact with emergency services.
• Notify the Duty Manager.
	INITIAL RESPONSE
	• Provide on scene information as directed by the ERTL if safe to do so.
	• Provide first aid to any injured personnel if able & safe to do so.
	• Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
		Do not put yourself at risk.
		Major structural / mechanical damage may also result in any of the following scenarios:
		• Pollutant spill on ground
		• Gas, crude, condensate release
		• Fire / Explosion in plant / Field / Building.

ONGOING RESPONCE • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency.	**ONGOING RESPONSE** • Provide updates to the ERTL max 5 mins. • Prepare to receive emergency services onsite based on the condition of the injured person.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions identified. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.20. Vehicle Accident	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the emergency.
  ○ Location
  ○ Name of the person.
  ○ First Aid administered.
  ○ Type and special conditions for transport.
• Activate SERP.
• Mobilise Paramedic .
• Initiate contact with emergency services.
• Ensure all activities are recorded.
• Notify the Duty Manager / GEMT.
	INITIAL RESPONSE
	• Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
	• Travel to incident to assist with:
	  ○ Provision of first aid
	  ○ Regular updates
	  ○ Logistics
	  ○ Guiding emergency services at key intersections.
	• Provide updates to the ERTL (max 5 mins)
		Do not put yourself at risk.
		This scenario also involves the:
		• Medical Emergency and RFDS
		• Helicopter requirements.
		Consider:
		• Ambulance meeting places.
		• Despatching ERT members to key road intersections to guide emergency services.
		• Response times.
		
		All media contact will be through the GEMT and above

ONGOING RESPONCE • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency.	**ONGOING RESPONSE** • Preparation of the Airstrip.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

<table>
<tr><th colspan="2">G.21. Fire Field Based</th><th>Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251</th></tr>
<tr><th>Site ERT Leader</th><th>Site ERT Members</th><th>Scenario Information</th></tr>
<tr><td>INITIATE BASIC RESPONSE
Obtain information about the emergency.
Location
Size / type of fire
Any injured / missing personnel
ESD of any plant.
Activate SERP.
Initiate contact with emergency services.
Ensure all activities are recorded.
Notify the Duty Manager / GEMT.</td><td>INITIAL RESPONSE
Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
If on scene, move to safe position and provide regular updates.</td><td rowspan="3">Do not put yourself at risk.
If possible isolate all fuel sources and keep ignition sources clear of the hazardous area.
When approaching a fire, stay upwind.
Dehydration packages
Initially treat as a gas fire.
Do not use water on a glycol fire.
Well Heads
The well heads produce gas with minimal condensate & water, the majority of well head fires will be gas.
Separator
The majority of fires will be gas / condensate.
Use an appropriate extinguisher (Dry Chem / Foam) if safe to do so.
Wire Line Unit
The majority of fires will be fuel / oil based.
Use an appropriate extinguisher (dry chem) if safe to do so.</td></tr>
<tr><td>ONGOING RESPONCE
Maintain contact with the first responder.
Maintain contact with and take advise from the Duty Manager.
Use the Emergency Team for activities during the emergency.</td><td>ONGOING RESPONSE
Provide basic fire fighting activities if safe to do so - only small fires.
Assist with coordinating Rural fire service as required.</td></tr>
<tr><td>RECOVERY
Liaison with the Duty Manager and Emergency Services
Ensure that the termination of the emergency is communicated.
Ensure the incident area is not disturbed before the investigation is complete.
Ensure 10.1, 10.2 & 10.3 are complied with.
Log the incident into OCIS with any remedial actions identified.
Provide a debrief to all personnel onsite.</td><td>RECOVERY
Assist with the recovery phase as directed by the Site Emergency Team leader.</td></tr>
</table>

G.22. Fire - Plant	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• ESD of the plant (part of auto system).
• Obtain information about the incident.
  ○ Location.
  ○ Damage or type of failure.
  ○ Any injuries to personnel
• Initiate Muster & Evacuate if necessary.
• Activate the SERP.
• Ensure all activities are recorded.
• Notify the Duty Manager & GEMT.
	INITIAL RESPONSE
	• Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
	• If on scene, move to safe position and provide regular updates (max 5 mins).
		Do not put yourself at risk.
		General Fire's with CSG or LPG
		Control where possible by stopping gas flow and / or depressurising equipment.
		
		Plant has:
		• Flame & Gas detection alarms

ONGOING RESPONCE • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency.	**ONGOING RESPONSE** • Provide basic fire fighting activities if safe to do so - only small fires. • Assist with coordinating Rural fire service as required.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

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G.23. Fire - Buildings / Storage / Accommodation	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the incident.
  ○ Location.
  ○ Damage or type of failure.
  ○ Any injuries to personnel
• ESD of the plant.
• Initiate Muster & Evacuate if necessary.
• Initiate the SERP
• Ensure all activities are recorded.
• Notify the Duty Manager & GEMT
	INITIAL RESPONSE
	• Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
	• If on scene, move to safe position and provide regular updates.
	• Provide basic fire fighting activities if safe to do so - only small fires.
	• Provide updates to the ERTL (max 5 mins).
		Do not put yourself at risk.
		Ascertain if all occupants have left the building.
		Isolate the electrical supply.
		Portable fire extinguishers are located around the plant.
		Some materials emit toxic fumes when burnt.
		Chemical Storage
		Regard all chemicals as toxic when exposed to a flame
		Without risk to self a fire extinguisher could be used (dry chem/foam).
		Pay attention to the wind direction - stay upwind.
		Flammable goods
		Flammable goods should always be regarded as toxic.
		Without risk to self a fire extinguisher could be used (dry chem/foam).

ONGOING RESPONCE • Maintain contact with the first responder. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency.	**ONGOING RESPONSE** • Assist with coordinating Rural fire service as required.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.24. Bushfire	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the fire.
  ○ Location
  ○ Size / type of fire
  ○ Any injured / missing personnel
• Activate SERP.
• Consider ESD of any plant.
• Consider checking of fire breaks if safe to do so.
• Account for all personnel.
• Initiate contact with emergency services.
• Ensure all activities are recorded.
• Notify the Duty Manager & GEMT.
	INITIAL RESPONSE
	• Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
	• If on scene, move to safe position as directed and provide regular updates.
	• Mobilse fire fighting trailer if necessary.
		Do not put yourself at risk.
		Active clearing around facilities should be in place.
		
		Should the fire breaks be crossed, ESD of nearby equipment should be performed and the situation closely monitored.
		Ensure all fire breaks are clear of debris.
		Ensure all personnel are accounted for.
		Activate alarms and muster as required.
		
		The control of a bushfire rests with the Rural Fire Brigade until the fire reaches the site boundaries, management will then take control.

ONGOING RESPONCE • Maintain contact with the first responder. • Determine if evacuation is required. • Maintain contact with and take advise from the Duty Manager. • Use the Emergency Team for activities during the emergency.	**ONGOING RESPONSE** • Provide basic fire fighting activities if safe to do so - only small fires. • Assist with coordinating Rural fire service as required.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

G.25. Weather Related Incident	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain information about the emergency.
  ○ Location
  ○ Size / Extent of damage, flooding, storm event
  ○ Any injured / missing personnel
• Account for all personnel.
• Consider ESD of any plant.
• Initiate contact with emergency services.
• Activate SERP.
• Ensure all activities are recorded.
• Notify the Duty Manager & GEMT.
	INITIAL RESPONSE
	• Undertake Site ERT Member roles as directed, (Scribe, Communications, Logistics, field response.)
	• If on scene, move to safe position as directed and provide regular updates (max 5 mins).
		Do not put yourself at risk.
		This scenario may involve the events during or after a major weather related event.
		
		Flooding of access / sites.
		
		Transportation during floods
		
		If any creek levels are determined to be passable (0.3m for 2 wheel drive, 0.4m for 4 wheel drive) in one hour then personnel are recommended to wait, advise the supervisor before and after crossing.

ONGOING RESPONCE • Maintain contact with and take advise from the Duty Manager. • Determine if evacuation is required.	**ONGOING RESPONSE** • As directed by the ERTL.	
RECOVERY • Liaison with the Duty Manager and Emergency Services • Ensure that the termination of the emergency is communicated. • Ensure the incident area is not disturbed before the investigation is complete. • Ensure clauses 10.1, 10.2 & 10.3 are complied with. • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite.	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

Site Emergency Response Log

Scenario:	
Time:	
Date:	
Location:	

Immediate Actions Checklist - Site ERT Leader				
Check	**Action**	**Comments**	**Time/Date**	**Initial**
☐	Muster and Evacuate (Account for all persons on site)			
☐	Emergency Services contacted			
☐	Establish Emergency Control Room			
☐	GEMT Leader contacted			
☐	Neighbours/other contractors contacted			

Information for Emergency Response Team		
Check	**Consideration**	**Details**
☐	Current situation (Nature of emergency, missing persons)	
☐	Main site access	
☐	Active/Isolated energy sources	
☐	Site hazards/hazardous areas	
☐	Quantity/Location of Dangerous Goods/Hazardous Substances	
☐	Action taken	

Sequence of events	Time/Date	Initial

Sequence of events	Time/Date	Initial

Recovery - Appropriate Notifications				
Check	**Notification of return to scheduled work**	**Comments**	**Time/Date**	**Initial**
☐	GEMT Leader informed			
☐	Emergency Service stood down			
☐	Verbal – "All Clear"			
☐	Notify neighbours/other contractors			
☐	De-brief session			

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Emergency Response Immediate Actions Checklist

Scenario:	
Time:	
Date:	
Location:	

Immediate Actions Checklist				
Check	**Action**	**Notified who?**	**Time/Date**	**Initial**
☐	Secure visitor book & MSDS register			
☐	Locate First Aid Kit			
☐	Proceed to Muster Point & notify the Site ERT Leader of your position			
☐	Assist in any First Aid required			
☐	Assist Emergency Service when required			
☐	Assist Site ERT Leader when required			

Sequence of events	**Time/Date**	**Initial**

Sequence of events	Time/Date	Initial

Situation Resolved - Appropriate Notifications				
Check	**Notification of return to scheduled work**	**Comments**	**Time/Date**	**Initial**
☐	Await Verbal - "All Clear"			
☐	Attend De-brief session			

Change over checklist

Outgoing Team:	Incoming Team
☑ Set changeover time ☑ Ensure Incident Action Plan is prepared ☑ Brief replacement ☑ Leave	☑ Receive Incident Action Plan ☑ Ensure understanding and implementation of Incident Action Plan ☑ Establish contact with other responders ☑ Plan for next changeover

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Appendix H Bomb Threat Check List

Questions to Ask:

1. When is the bomb going to go off?
2. Where did you put the bomb?
3. When did you put it there?
4. What does the bomb look like?
5. What kind of bomb is it?
6. What will make the bomb explode?
7. Did you place the bomb?
8. Why did you place the bomb?
9. What is your name?
10. Where are you?

Exact wording of threat:

_____
_____
_____
_____
_____
_____
_____

Record details of:

Callers voice (Accent, Impediment, Voice, Speech and Manner)

_____
_____
_____
_____

Background Noise (Street, Aircraft, Voices, Music, Machinery, House, Local Call, Long Distance, STD)

_____
_____
_____
_____

Threat Language (Well spoken, Incoherent, Irrational, Taped, Message Read, Abusive)

_____
_____
_____
_____

Other (Sex, Age)

_____

Date, Time and Duration of Call

_____
_____
_____

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Appendix I Water Treatment Facility Toolkits

I.1. Public Health Risk Consequence Categories

	CSG final water quality limit exceedance	Public Health Impact	Disruption to Condamine drinking water supply	Consumer confidence
CATASTROPHIC 6	Significant exceedance of CSG final water quality limits.	Fatality or serious irreversible disability to one or more persons.	Permanent shut down of drinking water supply.	National media attention with political involvement. Complete loss of consumer confidence.
CRITICAL 5	Significant exceedance of CSG final water quality limits.	Significant long term illness to multiple community members.	Significant long term disruption to drinking water supply.	National media attention for >2 days. Significant public outcry.
MAJOR 4	Significant exceedance of CSG final water quality limits.	Significant but temporary illness to multiple community members.	Significant but temporary disruption to drinking water supply.	National media attention for 1 day. Community outcry.
SERIOUS 3	Significant exceedance of CSG final water quality limits.	Minor temporary illness requiring medical attention to one or more persons.	Minor short term disruption to drinking water supply with no long term impacts.	Heightened community concern attracting local/state media attention.
MODERATE 2	Significant exceedance of CSG final water quality limits.	No identified health impacts.	None.	Concerns raised by local community.
MINOR 1	Any exceedance of CSG final water quality limits.	None.	None.	No community involvement.

I.2. Public Health Risk Incident and Emergency Response Matrix

	INTERNAL NOTIFICATION	EXTERNAL NOTIFICATION	MONITORING	REPORTING	FURTHER ACTIONS
MINOR	Site Superintendent CSG Water Manager	Office of the Water Supply Regulator (DERM) Western Downs Regional Council	Review available data Contact lab and expedite results of most recent sampling event	Interim report to OWSR within 24hours Complete incident report to OWSR on resolution of incident Event to be logged in OCIS within 48 hours Complete Incident Investigation in accordance with ORG-HSE-DVE-006	Stop discharge to Condamine River/ WTF recirculation mode until further notice Keep OWSR/ WDRC well informed Provide additional assistance to WDRC as required
MODERATE	As above	As above plus Emergency Services of required	As above plus commence additional sampling from discharge point and/or Condamine River	As above	As above
SERIOUS	As above plus Emergency Response Team	As above	As above plus commence water sampling at Condamine Weir	As above	Initiate community consultation in conjunction with WDRC
MAJOR	As above plus Group Emergency Management Team	As above	As above plus commence water sampling of Condamine water supply	As above	In conjunction with WDRC consider flushing the Condamine water supply alternative water supply arrangements
CRITICAL & CATASTROPHIC	As above plus Crisis Management Team (activated via GEMT)	As above	As above	As above	Request GEMT activate Crisis Management Plan

I.3. Contamination of Feed Water

Changes in feed water quality have the potential to affect CSG final water quality. Possible sources of feed water contamination include but are not limited to:

- Changes in coal seam water quality;
- Contamination of feed water ponds as a result of natural processes (ie algae growth); and
- Intentional contamination of feed water (ie Sabotage).

CONTAMINATION OF FEED WATER WITH THE POTENTIAL TO AFFECT CSG FINAL WATER QUALITY		
First Responder		
• Remove yourself and others from danger; • Activate ESD/isolate equipment as necessary; • Raise the alarm (report location, type and extent of incident) by radio or telephone to Site ERT Leader (if applicable); • Provide First Aid to any injured persons, as required and if qualified to do so; and Muster (if required)		
Site ERT Leader		
• Assess the incident and determine if the IERP is to be activated; • Notify the Department of Environment and Resource Management Office of the Water Supply Regulator and the Western Downs Regional Council, if required; • Liaise with Site Superintendent/ Water Manager/ GEMT leader as appropriate; • Provide guidance on response method; and • Direct Site ERT Members in the response relevant to the scenario.		
Response Plan		
Initial Response	**MINOR**	• Stop discharge to Condamine River/ WTF recirculation mode until further notice
Internal Notification		• Site Superintendent • CSG Water Manager

External Notification		• External notification required in initial response
		  ○ Office of the Water Supply Regulator (DERM)
		  ○ Western Downs Regional Council

Monitoring		• Review available date • Contact lab and expedite results of most recent sampling event
Reporting		• Interim report to OWSR within 24 hours • Complete incident report to OWSR on resolution of incident/ emergency • Event to be logged in OCIS within 48 hours
Trigger		• Exceeding contaminant
Escalation		• Magnitude of exceedance increasing.
Additional Response	**MODERATE**	Contact Emergency Services (if required) Commence additional sampling from discharge point and/or Condamine River
	SERIOUS	Contact Emergency Response Team Commence sampling at Condamine Weir Initiate community consultation in conjunction with WDRC
	MAJOR	Contact Group Emergency Management Team Commence sampling of Condamine Water Supply In conjunction with WDRC consider flushing the Condamine water supply and making alternative water supply arrangements
	CRITICAL & CATASTROPHIC	Request GEMT contact Crisis Management Team

I.4. Treatment process failure resulting in exceedance of CSG final water quality limits

Failure of individual treatment process may affect CSG final water quality. Key treatment processes include:

- Membrane Filtration;
- Reverse Osmosis; and
- Chemical dosing systems.

<table>
<tr><th colspan="3">TREATMENT PROCESS FAILURE RESULTING IN EXCEEDANCE OF CSG FINAL WATER QUALITY LIMITS</th></tr>
<tr><td colspan="3">First Responder</td></tr>
<tr><td colspan="3">• Remove yourself and others from danger;
• Activate ESD/isolate equipment as necessary;
• Raise the alarm (report location, type and extent of incident) by radio or telephone to Site ERT Leader (if applicable);
• Provide First Aid to any injured persons, as required and if qualified to do so; and Muster (if required)</td></tr>
<tr><td colspan="3">Site ERT Leader</td></tr>
<tr><td colspan="3">• Assess the incident and determine if the IERP is to be activated;
• Notify the Department of Environment and Resource Management Office of the Water Supply Regulator and the Western Downs Regional Council, if required;
• Liaise with Site Superintendent/ Water Manager/ GEMT leader as appropriate;
• Provide guidance on response method; and
• Direct Site ERT Members in the response relevant to the scenario.</td></tr>
<tr><td colspan="3">Response Plan</td></tr>
<tr><td rowspan="2">Initial Response</td><td colspan="2">MODERATE</td></tr>
<tr><td colspan="2">• Stop discharge to Condamine River/ WTF recirculation mode until further notice</td></tr>
<tr><td>Internal Notification</td><td colspan="2">• Site Superintendent
• CSG Water Manager</td></tr>
<tr><td>External Notification</td><td colspan="2">• External notification required in initial response
○ Office of the Water Supply Regulator (DERM)
○ Western Downs Regional Council
• Contact Emergency services if required</td></tr>
<tr><td>Monitoring</td><td colspan="2">• Review available date
• Contact lab and expedite results of most recent sampling event
• Commence additional sampling from discharge point and/or Condamine River</td></tr>
<tr><td>Reporting</td><td colspan="2">• Interim report to OWSR within 24 hours
• Complete incident report to OWSR on resolution of incident/ emergency
• Event to be logged in OCIS within 48 hours</td></tr>
<tr><td>Trigger</td><td colspan="2">• Exceeding contaminant</td></tr>
<tr><td>Escalation</td><td colspan="2">• Magnitude and /or number of exceedance increasing
• Type and scale of failure</td></tr>
<tr><td rowspan="3">Additional Response</td><td>SERIOUS</td><td>Contact Emergency Response Team
Commence sampling at Condamine Weir
Initiate community consultation in conjunction with WDRC</td></tr>
<tr><td>MAJOR</td><td>Contact Group Emergency Management Team
Commence sampling of Condamine Water Supply
In conjunction with WDRC consider flushing the Condamine water supply and making alternative water supply arrangements</td></tr>
<tr><td>CRITICAL & CATASTROPHIC</td><td>Request GEMT contact Crisis Management Team</td></tr>
</table>

I.5. Exceedance of CSG final water quality limits

Any exceedance of CSG final water quality limits is considered to be a plausible risk to public health.

<table>
<tr><th colspan="3">EXCEEDANCE OF CSG FINAL WATER QUALITY LIMITS</th></tr>
<tr><td colspan="3">First Responder</td></tr>
<tr><td colspan="3">• Remove yourself and others from danger;
• Activate ESD/isolate equipment as necessary;
• Raise the alarm (report location, type and extent of incident) by radio or telephone to Site ERT Leader (if applicable);
• Provide First Aid to any injured persons, as required and if qualified to do so; and Muster (if required)</td></tr>
<tr><td colspan="3">Site ERT Leader</td></tr>
<tr><td colspan="3">• Assess the incident and determine if the IERP is to be activated;
• Notify the Department of Environment and Resource Management Office of the Water Supply Regulator and the Western Downs Regional Council, if required;
• Liaise with Site Superintendent/ Water Manager/ GEMT leader as appropriate;
• Provide guidance on response method; and
• Direct Site ERT Members in the response relevant to the scenario.</td></tr>
<tr><td colspan="3">Response Plan</td></tr>
<tr><td rowspan="2">Initial Response</td><td colspan="2">MODERATE</td></tr>
<tr><td colspan="2">• Stop discharge to Condamine River/ WTF recirculation mode until further notice</td></tr>
<tr><td>Internal Notification</td><td colspan="2">• Site Superintendent
• CSG Water Manager</td></tr>
<tr><td>External Notification</td><td colspan="2">• External notification required in initial response
○ Office of the Water Supply Regulator (DERM)
○ Western Downs Regional Council
• Contact Emergency services if required</td></tr>
<tr><td>Monitoring</td><td colspan="2">• Review available date
• Contact lab and expedite results of most recent sampling event
• Commence additional sampling from discharge point and/or Condamine River</td></tr>
<tr><td>Reporting</td><td colspan="2">• Interim report to OWSR within 24 hours
• Complete incident report to OWSR on resolution of incident/ emergency
• Event to be logged in OCIS within 48 hours</td></tr>
<tr><td>Trigger</td><td colspan="2">• Exceeding contaminant</td></tr>
<tr><td>Escalation</td><td colspan="2">Magnitude and / or number of exceedances increasing</td></tr>
<tr><td rowspan="3">Additional Response</td><td>SERIOUS</td><td>Contact Emergency Response Team
Commence sampling at Condamine Weir
Initiate community consultation in conjunction with WDRC</td></tr>
<tr><td>MAJOR</td><td>Contact Group Emergency Management Team
Commence sampling of Condamine Water Supply
In conjunction with WDRC consider flushing the Condamine water supply and making alternative water supply arrangements</td></tr>
<tr><td>CRITICAL & CATASTROPHIC</td><td>Request GEMT contact Crisis Management Team</td></tr>
</table>

I.6. System failure resulting in loss of containment

A system failure resulting in a loss of containment could be initiated as a result of:

- Failure of construction material and/or methods;
- Impact/ collision with equipment;
- Intentional damage (ie Sabotage/ Vandalism); and
- Natural disaster.

<table>
<tr><th colspan="3">SYSTEM FAILURE RESULTING IN LOSS OF CONTAINMENT</th></tr>
<tr><td colspan="3">First Responder</td></tr>
<tr><td colspan="3">• Remove yourself and others from danger;
• Activate ESD/isolate equipment as necessary;
• Raise the alarm (report location, type and extent of incident) by radio or telephone to Site ERT Leader (if applicable);
• Provide First Aid to any injured persons, as required and if qualified to do so; and Muster (if required)</td></tr>
<tr><td colspan="3">Site ERT Leader</td></tr>
<tr><td colspan="3">• Assess the incident and determine if the IERP is to be activated;
• Notify the Department of Environment and Resource Management Office of the Water Supply Regulator and the Western Downs Regional Council, if required;
• Liaise with Site Superintendent/ Water Manager/ GEMT leader as appropriate;
• Provide guidance on response method; and
• Direct Site ERT Members in the response relevant to the scenario.</td></tr>
<tr><td colspan="3">Response Plan</td></tr>
<tr><td rowspan="2">Initial Response</td><td colspan="2">MODERATE</td></tr>
<tr><td colspan="2">• Stop discharge to Condamine River/ WTF recirculation mode until further notice</td></tr>
<tr><td>Internal Notification</td><td colspan="2">• Site Superintendent
• CSG Water Manager</td></tr>
<tr><td>External Notification</td><td colspan="2">• External notification required in initial response
○ Office of the Water Supply Regulator (DERM)
○ Western Downs Regional Council
• Contact Emergency services if required</td></tr>
<tr><td>Monitoring</td><td colspan="2">• Review available date
• Contact lab and expedite results of most recent sampling event
• Commence additional sampling from discharge point and/or Condamine River</td></tr>
<tr><td>Reporting</td><td colspan="2">• Interim report to OWSR within 24 hours
• Complete incident report to OWSR on resolution of incident/ emergency
• Event to be logged in OCIS within 48 hours</td></tr>
<tr><td>Triggers</td><td colspan="2">• Exceeding contaminant</td></tr>
<tr><td>Escalation</td><td colspan="2">• Magnitude of event
• Location of discharge</td></tr>
<tr><td rowspan="3">Additional Response</td><td>SERIOUS</td><td>Contact Emergency Response Team
Commence sampling at Condamine Weir
Initiate community consultation in conjunction with WDRC</td></tr>
<tr><td>MAJOR</td><td>Contact Group Emergency Management Team
Commence sampling of Condamine Water Supply
In conjunction with WDRC consider flushing the Condamine water supply and making alternative water supply arrangements</td></tr>
<tr><td>CRITICAL & CATASTROPHIC</td><td>Request GEMT contact Crisis Management Team</td></tr>
</table>

I.7. Operational failure resulting in loss of containment

An operational failure resulting in a loss of containment could be initiated as a result of:

- Electrical/ control failure;
- Operator error;
- Process adjustments;
- Intentional damage (ie Sabotage/ Vandalism); and
- Natural disaster.

OPERATIONAL FAILURE RESULTING IN LOSS OF CONTAINMENT		
First Responder		
• Remove yourself and others from danger; • Activate ESD/isolate equipment as necessary; • Raise the alarm (report location, type and extent of incident) by radio or telephone to Site ERT Leader (if applicable); • Provide First Aid to any injured persons, as required and if qualified to do so; and Muster (if required)		
Site ERT Leader		
• Assess the incident and determine if the IERP is to be activated; • Notify the Department of Environment and Resource Management Office of the Water Supply Regulator and the Western Downs Regional Council, if required; • Liaise with Site Superintendent/ Water Manager/ GEMT leader as appropriate; • Provide guidance on response method; and • Direct Site ERT Members in the response relevant to the scenario.		
Response Plan		
Initial Response	**MODERATE**	
	• Stop discharge to Condamine River/ WTF recirculation mode until further notice	
Internal Notification	• Site Superintendent • CSG Water Manager	

External Notification	• External notification required in initial response
	  ○ Office of the Water Supply Regulator (DERM)
	  ○ Western Downs Regional Council
	• Contact Emergency services if required	

Monitoring	• Review available date • Contact lab and expedite results of most recent sampling event • Commence additional sampling from discharge point and/or Condamine River	
Reporting	• Interim report to OWSR within 24 hours • Complete incident report to OWSR on resolution of incident/ emergency • Event to be logged in OCIS within 48 hours	
Trigger	• Exceeding contaminant	
Escalation	• Magnitude of event	
Additional Response	**SERIOUS**	Contact Emergency Response Team Commence sampling at Condamine Weir Initiate community consultation in conjunction with WDRC
	MAJOR	Contact Group Emergency Management Team Commence sampling of Condamine Water Supply In conjunction with WDRC consider flushing the Condamine water supply and making alternative water supply arrangements
	CRITICAL & CATASTROPHIC	Request GEMT contact Crisis Management Team

I.8. Pond failure leading to loss of containment

A loss of containment from any CSG storage ponds presents a plausible risk to public health. The appropriate level of response will be dependent on:

- The type of pond (ie holding pond or effluent brine pond);
- Type of failure (ie leaking liner or pond wall failure);
- Cause (i.e. Sabotage/Vandalism, natural disaster, failure of construction materials/ methods).

<table>
<tr><th colspan="3">POND FAILURE LEADING TO LOSS OF CONTAINMENT</th></tr>
<tr><td colspan="3">First Responder</td></tr>
<tr><td colspan="3">• Remove yourself and others from danger;
• Activate ESD/isolate equipment as necessary;
• Raise the alarm (report location, type and extent of incident) by radio or telephone to Site ERT Leader (if applicable);
• Provide First Aid to any injured persons, as required and if qualified to do so; and Muster (if required)</td></tr>
<tr><td colspan="3">Site ERT Leader</td></tr>
<tr><td colspan="3">• Assess the incident and determine if the IERP is to be activated;
• Notify the Department of Environment and Resource Management Office of the Water Supply Regulator and the Western Downs Regional Council, if required;
• Liaise with Site Superintendent/ Water Manager/ GEMT leader as appropriate;
• Provide guidance on response method; and
• Direct Site ERT Members in the response relevant to the scenario.</td></tr>
<tr><td colspan="3">Response Plan</td></tr>
<tr><td>Initial Response</td><td colspan="2">SERIOUS</td></tr>
<tr><td>Internal Notification</td><td colspan="2">• Site Superintendent
• CSG Water Manager</td></tr>
<tr><td>External Notification</td><td colspan="2">• External notification required in initial response
○ Office of the Water Supply Regulator (DERM)
○ Western Downs Regional Council
• Contact Emergency services if required</td></tr>
<tr><td>Monitoring</td><td colspan="2">• Review available date
• Contact lab and expedite results of most recent sampling event
• Commence additional sampling from discharge point and/or Condamine River</td></tr>
<tr><td>Reporting</td><td colspan="2">• Interim report to OWSR within 24 hours
• Complete incident report to OWSR on resolution of incident/ emergency
• Event to be logged in OCIS within 48 hours</td></tr>
<tr><td>Trigger</td><td colspan="2">• Type of failure</td></tr>
<tr><td>Escalation</td><td colspan="2">• Magnitude of event
• Type of pond (ie holding pond/ effluent brine pond)
• Dry or wet weather failure
• Type of failure (ie leak in pond liner or failure of pond wall)</td></tr>
<tr><td rowspan="3">Additional Response</td><td>SERIOUS</td><td>Contact Emergency Response Team
Commence sampling at Condamine Weir
Initiate community consultation in conjunction with WDRC</td></tr>
<tr><td>MAJOR</td><td>Contact Group Emergency Management Team
Commence sampling of Condamine Water Supply
In conjunction with WDRC consider flushing the Condamine water supply and making alternative water supply arrangements</td></tr>
<tr><td>CRITICAL & CATASTROPHIC</td><td>Request GEMT contact Crisis Management Team</td></tr>
</table>

Structural Failure of the Pond

Properties at risk	Breach Location	Depth of water	Travel times for flow	Contact
June Winter's Property including residence	E, SE, S, SW	0.4m	SE, S - Less than 40 mins E, SW - Less than 60 mins	June Winter
Shearing shed (Origin)	NE, E, SE	1.1m	NE, E, SE - Less than 20mins	Talinga Supervisor Leasee
Origin's Talinga Office and surrounding buildings	N, NE, E, W, NW	1.7m	N, NE, W, NW - Less than 20mins E - Less than 40 mins	Talinga Supervisor Leasee
Condamine Kogan Rd	N, NE, E, SE, S, SW, W, NW	1.1m	N, NE, W, NW - Less than 40 mins E - Less than 60 mins SE - 120mins S - 140mins SW - 340mins	MainRoads Local Landholders

For a pond crest failure during an extreme rainfall event (1 in 100yr event), the flooding is more extensive and there are more impacts along the Condamine River, however the number of buildings at risk and the depth of water for those structures is as for the sunny day event above. The impacts along the Condamine River are unknown potential damage to four farm dams and a reservoir associated with aquaculture.

At the Kogan Condamine Road Crossing the 1 in 100yr event inundates the road by 2.3m. The breach o top adds an additional 0.7m and increases the velocity.

It is not possible to provide travel time estimates for an overtopping event combined with the 1 in 100yr event, other than to comment that the times would be less than those provided in the table above.

Breach Formation Details

Parameter	Sunny Day	Pond Crest Failure
Time taken for breach to form	36 minutes	40 minutes
Fully developed breach width	35m - top width	35m - top width

I.9. Small Spill Impermeable Ground	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Muster all people - if assembly point is downwind of spill use alternative muster point.
• Obtain details of the incident.
  ○ Type & Extent of spill
• Account for all people
• Activate SERP.
	INITIAL RESPONSE
	• Assess spill & notify the Supervisor.
	• Plan the clean up.
	  ○ Sump valve to be open.
	  ○ Dilution with water.
	  ○ Initially set the hose reel to "fog".
	  ○ Approach from upwind.
	  ○ Wash spill down drain to sump.
		Do not put yourself at risk.
		Small spill is less than 20L.
		Always pay attention to fire and health hazards
		• Move across or up wind (refer windsock)
		• Alert personnel of spill
		• Assess the situation
		Clean up involves:
		• Dilution with water
		• Initially with hose reel set on "fog"
		• Approach from up wind
		• Wash spill down central drain in un loading area.
		• Use neutralising material if required.
		Points to Remember
		• Do not allow vehicles to run over spill saturated areas.
		• Materials handled include Acids & Alkalis.
		• Primary hazard is contact with skin and eyes.
		• Some products are incompatible and have the potential to increase or alter the hazard.
		• Disposal of diluted material to the ponds is permissible in an emergency.

ONGOING RESPONCE • Maintain contact with the first responder. • Ensure area cleaned up.	**ONGOING RESPONSE** • Wash down area with excess water. • Complete clean up. • Notify people in surrounding area that clean up is complete.	
RECOVERY • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite (can be at next toolbox).	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

I.10. Large Spill Impermeable Ground	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Muster all people - if assembly point is downwind of spill use alternative muster point.
• Obtain details of the incident.
  ○ Type & Extent of spill
• Account for all people
• Activate SERP.
 	
Based on level of rupture:
• Activate SERP.
• Ensure plant is shutdown as appropriate
• Ensure all personnel have been accounted for.
• Initiate contact with emergency services.
• Notify the Duty Manager.
	INITIAL RESPONSE
	• Raise the Alarm
	• Move upwind / sideways (refer windsock).
	• Assess spill & notify the Supervisor.
	On Scene Members
	• Plan the clean up.
	  ○ Sump valve to be open.
	  ○ Dilution with water.
	  ○ Initially set the hose reel to "fog".
	  ○ Approach from upwind.
	  ○ Wash spill down drain to sump.
		Do not put yourself at risk.
		
		Large spill is greater than 20L.
		
		Always pay attention to fire and health hazards
		• Move across or up wind (refer windsock)
		• Always assume a spill is 33% HCL (worst case).
		
		Clean up involves:
		• Dilution with water
		• Initially with hose reel set on "fog"
		• Approach from up wind
		• Wash spill down central drain in un loading area.
		• Use neutralising material if required.
		
		Points to Remember
		• Escape respirators should be carried by all persons working in the vicinity during the unloading operations.
		• Do not allow vehicles to run over spill saturated areas.
		• Primary hazard is contact with skin and eyes.
		• Some products are incompatible and have the potential to increase or alter the hazard.
		• Disposal of diluted material to the ponds is permissible in an emergency.

ONGOING RESPONCE • Maintain contact with the first responder. • Ensure area cleaned up.	**ONGOING RESPONSE** • Wash down area with excess water. • Complete clean up • Notify people in surrounding area that clean up is complete.	
RECOVERY • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite (can be at next toolbox).	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

I.11. Chlorine Leak	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain details of the incident.
  ○ Size, location
• Account for all people
• Initiate contact with Emergency Services
• Activate SERP.
 	
Based on level of rupture:
• Activate SERP.
• Ensure plant is shutdown as appropriate
• Ensure all personnel have been accounted for.
• Initiate contact with emergency services.
• Notify the Duty Manager.
	INITIAL RESPONSE
	• Raise the Alarm.
	• Move upwind / sideways (refer windsock).
	• Use escape respirators if deemed necessary.
	• Assess spill & notify the Supervisor.
	• Plan the clean up.
	  ○ Sump valve to be open.
	  ○ Dilution with water.
	  ○ Initially set the hose reel to "fog".
	  ○ Approach from upwind.
	  ○ Wash spill down drain to sump.
		Do not put yourself at risk.
		
		Chlorine gas is stored in 920kg drums - up to 6 onsite at any time.
		
		The chlorine system has an automatic emergency shut off valve activated by Gas Detectors.
		
		Overhead water sprinkler system can be activated manually.
		
		Chlorine Gas is heavier than air and may be visible as greenish-yellow vapour cloud.
		
		The windsock is to the West of the Chlorination Unit.

ONGOING RESPONCE • Maintain contact with the first responder. • Ensure area cleaned up.	**ONGOING RESPONSE** • Wash down area with excess water. • Ventilate the building by opening all roller doors • Complete clean up • Notify people in surrounding area that clean up is complete.	
RECOVERY • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite (can be at next toolbox).	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

I.12. Ammonia Gas Release	Duty Manager: 0437 687 235: Origin Emergency Number: 1800 076 251	
Site ERT Leader	**Site ERT Members**	**Scenario Information**

INITIATE BASIC RESPONSE
• Obtain details of the incident.
  ○ Size, location
• Account for all people
• Initiate contact with Emergency Services
• Activate SERP.
 	
Based on level of rupture:
• Activate SERP.
• Ensure plant is shutdown as appropriate
• Ensure all personnel have been accounted for.
• Initiate contact with emergency services.
• Notify the Duty Manager.
	INITIAL RESPONSE
	• Raise the Alarm.
	• Move upwind / sideways (refer windsock).
	• Use escape respirators if deemed necessary.
	• Assess spill & notify the Supervisor.
	• Plan the clean up.
	  ○ Sump valve to be open.
	  ○ Dilution with water.
	  ○ Initially set the hose reel to "fog".
	  ○ Approach from upwind.
	  ○ Wash spill down drain to sump.
		Do not put yourself at risk.
		
		Ammonia has a sharp, distinct, penetrating odour detectable at very low concentrations.
		
		The Chlorination Plant has an automatic emergency shut off valve activated by Gas Detectors.
		
		The windsock is to the West of the Chlorination Unit.
		
		Spillages will rapidly evaporate.

ONGOING RESPONCE • Maintain contact with the first responder. • Ensure area cleaned up.	**ONGOING RESPONSE** • Wash down area with excess water. • Ventilate the building by opening all roller doors • Complete clean up • Notify people in surrounding area that clean up is complete.	
RECOVERY • Log the incident into OCIS with any remedial actions. • Provide a debrief to all personnel onsite (can be at next toolbox).	**RECOVERY** • Assist with the recovery phase as directed by the Site Emergency Team leader.	

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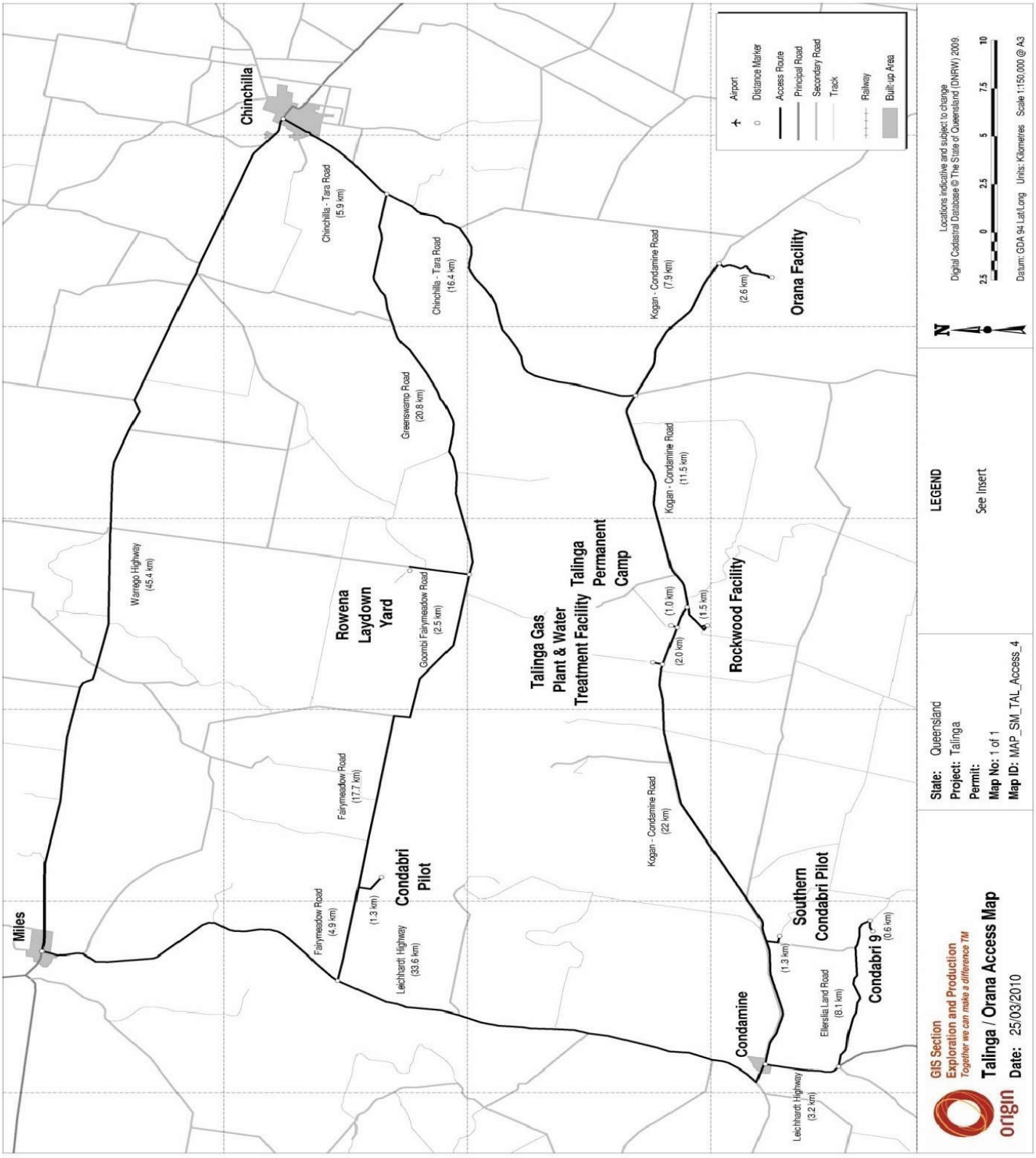
Appendix J Talinga Access Map



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