Plan

UPS-HSE-ERP-001

# Uranquinty Power Station Emergency Response Plan

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## 1. Introduction

The Site Emergency Response Plan (ERP) is designed to provide direction and guidance for the Site Emergency Response Team Leader (Site ERT Leader) and site Emergency Response Team (ERT) to respond effectively to site level emergencies and to return site to normal operations. Further support is provided to the Operational Sites through the Emergency Response Framework (see Figure 1), specifically, the Generation Group Emergency Management Plan (GEMP) and Origin Energy's Crisis Management Plan (CMP).

## 2. ERP Activation and Escalation

Upon the initial notification of a site level emergency, the Site ERT Leader will activate this ERP and escalate where appropriate to internal and external parties (see Table 1).

The Emergency Assessment and Escalation table from Emergency Management Procedure (ORG-RMS-PRO-006) is shown in Figure 1.

Note:

This is a guide to help leaders quickly assess actual or potential incident consequences and notification thresholds. You may choose to activate / notify at levels lower than those detailed

Each incident is different and must be individually assessed. It is prudent to contact the next level quickly if a SERT or GEMT has been activated.

Escalation / Notification to the next level does not guarantee that team will activate. They will assess the incident and decide if they should activate or leave it to be managed at the current level.

**Table 1: Activation and Escalation**

| | | Do | Check |
|---|---|---|---|
| Site ERT Leader | First Response | ✓ Activate the Emergency Response Team (ERT)<br>✓ Delegate actions to Site ERT members<br>✓ Notify local Emergency Services<br>✓ Notify Asset Operations Manager (AOM)<br>✓ Notify Monitoring Support Center (MSC)<br>✓ Notify Energy Risk Management (ERM) | ❑ |
| | Emergency Services | **Provide** the following:<br>✓ Type of assistance (Fire, Ambulance, Police)?<br>✓ Location of emergency (site entry)?<br>✓ Nature of the emergency?<br>✓ Injuries or missing persons?<br>✓ Any hazards present? | ❑ |
| | AOM | **Provide** the following:<br>✓ What has happened?<br>✓ What has been done so far?<br>✓ Request further resources?<br>✓ *Potential escalation to GEMT* | ❑ |
| | MSC | Request the following assistance, if required:<br>✓ Emergency shut downs<br>✓ Notification to Wholesale and Trading (WSandT)<br>✓ Notification to ERM<br>✓ Notification to fuel suppliers<br>✓ Notification to Transmission Network Service Providers<br>✓ Notification to contractors (details are required to complete task) | ❑ |

**Table 2: External Stakeholders Emergency Services Contact**

| External Stakeholders Emergency Services Contacts | | |
|---|---|---|
| **Service** | **Telephone Number** | **Response Time** |
| Police | 000 | 20 minutes |
| Fire | 000 | 20 minutes |
| Ambulance | 000 | 45 minutes |
| RFS | 000 | 20 minutes |
| SES | 132 500 | 20 minutes |
| See Appendix 2 for the guide to calling 000 | | |

**Table 3: Location Specific Data**

| Location Specific Data | | |
|---|---|---|
| Site Name | Uranquinty Power Station | |
| Site Address | 280 Uranquinty Cross Road, Uranquinty, NSW, 2652 | |
| Site Grid Reference | -35.180368, 147.216625 | |
| Core Site Business (wind/LPG/power/gas) | Power | |
| Plant Manager Contact Details | Harold Villalba02 6927 0101<br>0460 036 989E:<br>harold.villalbatapia@originenergy.com.au | |
| Primary Site Telephone No. | 02 6927 0141 | |
| Site Emergency Telephone No. | 02 6927 0141 (24 hour divert to Duty Operator if station unattended) | |
| Fax No. | 02 6927 0150 | |
| Site Internal Emergency Radio Channel | Ch. 41 Repeater (Backup Ch. 42 simplex if repeater fails) | |
| Site Location and Accessibility Relevant to Local Community | **Item** | **Details** |
| | Nearest Town | Uranquinty |
| | Nearest Major Road | Olympic Highway |
| | Nearest Intersections | Hanging Rock Rd and Kendall Rd |
| | Nearest Airport | Wagga Wagga (Forest Hill) |

In the event of an incident the actions in priority should be:
(1) provide appropriate immediate assistance
(2) notify the relevant Emergency Services if required
(3) ensure that appropriate plans are activated and notification & escalation is conducted.

| origin | Site Emergency Response Level 1 – Event | Group Emergency Management Level 2 - Emergency | Crisis Management Level 3 - Crisis |
|---|---|---|---|
| **ACTIVATION** | **The SERT may activate if any of the criteria below are met** | **The GEMT may activate if any of the below criteria are met** | **The CMT may activate if any of the following criteria are met** |
| **ESCALATION / NOTIFICATION** | **If this Team is Activated, SERT-L notifies Line Management who may notify the GEMT-L** | **If this Team is Activated, relevant ELT notifies Origin CEO & GEMT-L notifies SEC Team: 0402 898 161 (alt. 0422 869 142)** | **Relevant ELT to notify Origin CEO ASAP & GEMT-L notify SEC Team: 0402 898 161 (alt. 0422 869 142). If Activated, CMT to contact GEMT-L** |
| Injury / illness to workers | Injury or ill health requiring medical treatment. | Fatality or injury / ill health requiring extensive medical treatment (e.g. amputation, spinal injuries etc.). | For a fatality and/or severe irreversible disability to multiple people, assess in conjunction with other impacts (e.g. reputation) and consider CMT. |
| Loss of workforce capacity (pandemic or industrial action) | Loss of key staff/roles impacting on operational output. Threat of industrial action. | Operations compromised due to staff unavailability. | >75% of staff not available (>5 days). Ongoing industrial action affecting multiple business units /critical function(s). |
| Personnel and asset security | Non-specific threat towards the safety of Origin staff or asset. Includes protest, suspicious package, bomb threat etc. | Community protest action. Direct threats to OE Staff or asset. Bomb threat, suspicious package, security incident triggering ERPs. | Major security incident/criminal activity causing significant financial loss or warranting shareholder attention. |
| Environment and/or Community | Localised/short-term environmental and/or community incident/emergency. | Extensive environmental or community incident such as significant contamination, offsite pollution or fatality | Destruction of plant/animal population or area of significant environmental or cultural significance. Remediation not practical. Prolonged community outrage |
| Natural Disaster | Predicted or actual localised damage to facilities / assets due to storm, external fire, flooding. Local Disaster Plans activated. | Storm, fire, flood damage. Forecast natural disaster (widespread). Multiple locations impacted. Regional Disaster Plans activated. | Destruction of facilities/assets. State Disaster Plan/s activated. Significant impact to business/operations. |

| | | | |
|---|---|---|---|
| Fire and explosion | Small localised fire extinguishable by site resources or any explosion | Uncontrolled fire / explosion requiring external emergency support. | Fire / explosion - large scale response from multiple external agencies. |
| Property Damage | Serious damage to Origin asset / 3rd party property. | Major damage to Origin asset / 3rd party property. | Catastrophic damage to Origin asset / 3rd party property. |
| Loss of containment (LOC) inc chemical spill – solid, vapour, liquid. MAE (major accident event) | LOC from: any MAE, or event requiring HAZMAT response, or Non-Hazardous substance spill that meets response activating ERP scenario. Any spill to water. | Uncontrolled release unable to be isolated and contained within an hour after activating ERP scenario. Event resulting in evacuation of nearby residents. | Major release (or spill) requiring major multiple external agency response and evacuation or requiring resources of state or national response plans. |
| Laws, regulations, civil actions | Breach of regulation with investigation, report to authority, possible prosecution/fine. | Litigation/prosecution by regulator which could lead to plant closure. | Major litigation/prosecution with damages/fines >$25m. Involvement of Executive Leadership. |
| Stakeholders/ Media | Local media coverage. Health safety concerns to local community. | State/National or social media with potential to impact performance of site/team operations | National/social media coverage over several days. Shareholders, regulator, Board exercise control. Potential class action. |
| Facility, Plant or System failure / Cyber attack | Significant SLA Breach of a P1 IT incident affecting one BU/location. Loss of access to single location <4hrs | Significant SLA Breach of a P1 IT incident affecting more than one business unit/location. Loss of access to single location for >4 hrs | Significant SLA Breach of a P1 IT incident affecting the entire organisation. Loss of access to multiple locations |
| Customer interruption/S upply disruptions | Customer service interruption up to 1 day. Product shortfall at facility or supply point >25 TJ per day | Potential customer service interruption up to 3 days. Supply shortage impacting community or major customer >100TJ per day | Actual customer service interruption up to 3 days. Product shortage impacting a region. Inability to perform critical supply/production (as determined by BIA) |
| Third party failure (inc. contractor, supplier or partner) | Restricted impact which can be rectified in the normal course of business. e.g. haulage contract | Supply or services potentially disrupted with threat of serious impacts (inc to customers or critical functions). | Failure of major agreements/contracts with suppliers with major impacts (inc to customers or critical functions). Joint venture partner in crisis. |
| Financial | EBIT: $5m impact<br>CASH FLOW: $25m | EBIT: $20m impact<br>CASH FLOW: $100m | EBIT: > $200m impact<br>CASH FLOW: > $1b |

**Figure 1: Emergency Assessment and Escalation Tool**

## 3. Purpose

The purpose of this ERP is to describe the process to be followed for effective management of site level emergencies. Table 5 outlines the Emergency Response Philosophy to effectively manage site level emergencies.

This ERP also covers the requirements under the Protection of the Environment Operations Act , 1997 that requires a Pollution Incident Response Management Plan (PIRMP) see addendum.

**Table 4: Emergency Response Philosophy**

| | |
|---|---|
| **People** | Ensure the safety of all personnel, contractors and the public associated to, or affected by the Origin operations and/or activities<br>• Evacuate and Muster at safest Assembly Area (if deemed necessary)<br>• Account for all people and determine missing persons<br>• Stop unauthorised access<br>• Onsite response personnel WILL NOT fight High Voltage (HV) fires and only manage major fires using fixed fire protection (e.g. deluge)<br>• Fighting Low Voltage (LV) fires will only take place where appropriate isolations can be made first<br>• Provide a technical resource to the Emergency Services |
| **Environment** | Secure and minimise the impact on the environment through timely and effective management<br>• For emergencies that are safe to manage, (such as small fires, leaks and/or medical first aid emergencies), trained personnel will be mobilised to control and contain the emergency to minimise environmental impact. |
| **Assets** | Reduce the impact on property and assets<br>• Monitor automatic shutdown of the equipment or part thereof, or initiate manual shutdowns where safe to do so.<br>• Mobilise emergency services to intervene. |
| **Reputation** | Contain and manage the impact of Origin's reputation and business continuity<br>• Notification to neighbours (if required) |
| **Liability** | Minimise the disruption to continuing Origin operations and activities<br>• All personnel responsible for responding to an emergency will be trained in this ERP<br>• The ERP will be reviewed annually and updated as necessary<br>• Exercises and drills will be conducted regularly each 6 months in accordance with a schedule set by the Plant Manager. A variety of potential scenarios will be used when conducting drills. |

## 4. Scope

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

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

Emergency scenarios and specific responses covered in this plan include the following:

- Basic Response;
- Muster and Evacuation;
- Missing/Overdue Personnel;
- Medical Emergency;
- Rescue - Heights/Confined Space/Electrical;
- Pollutant/Spill/Environmental Incident;
- Security Alert - Civil Disturbance/Criminal Activity;
- Security Alert - Bomb Threat;
- Major Structural/Mechanical Failure;
- Vehicle Accident;
- Fire/Explosion;
- Bushfire;(see Uranquinty Bushfire Management Plan for details) and
- Weather Related Incident (Flooding).

## 5. Site Description

The Uranquinty Power Station (UPS) is located on Uranquinty Cross Road near Uranquinty, approximately 15km south-west of Wagga Wagga in New South Wales (see figure 2). It covers a portion of the Lot 782 on DP878179 and Lot 76 on DP754573, Parish of Yarragundry. The designated site area is 450m x 775m and is divided – with the switchyard area being owned by Transgrid and the “non-bench” areas outside of the immediate site fencing to be leased for grazing purposes.

The site is located on an intersection or crossover between an existing natural gas pipeline, which traverses local rural properties from south to north, and 132kV electricity transmission lines. Direct access to the site is available from the sealed Uranquinty Cross Road. A disused railway line also runs along the southern boundary of this corridor.

### 5.1 Minimum Staffing Levels

The site operates day shift only (7:30am – 4pm). On site, there is one (1) Plant manager, five (5) Plant technicians. The site is supported by an on-call arrangement to respond to alarms or any changing site conditions. After normal working hours, the Site ERT Leader is contactable via mobile telephone and shall activate the Site ERT.

### 5.2 Uncontactable lone or unscheduled attendance worker

In the event that a lone worker or unscheduled attendance worker is uncontactable, then the designated second contact person shall be contacted by the MSC to be dispatched to site verify the situation. The second contact shall be an Origin Energy employee, contractor or a nearby mutual aid and must be familiar with the site. The MSC is to be provided with the second contact details prior to the lone worker or unscheduled attendance worker attending site.

Refer to Emergency Response Scenario Card - Lone Worker Response and Unscheduled Attendance Procedure – Generation Power Stations (GEN-AMS-PRC-054). Also refer to Uranquinty Power Station Lone Worker Procedure.

## 5.3 Emergency Control Room Locations

| | Primary | Alternate |
|---|---|---|
| Emergency Control Room | Main Control Room | As deemed necessary utilising mobile command trailer |

Contents of Emergency Control Rooms will be covered in Appendix 8 Contents of Emergency Control Room.




**Figure 2: Aerial image of UPS**

## 5.4 Operations

UPS is operated as a peaking plant feeding into the National Electricity Market. The plant output is generated by four 166MW open cycle gas turbines.

The power station is fueled by natural gas from the Culcairn to Wagga Wagga Interconnect Gas Pipeline that passes through the site at a pressure of up to 10.2MPa. The existing buried natural gas pipeline runs along the western side of the plan and then diverts northeast between the Plant and switchyard. The natural gas enters the facility through a metering skid and a gas receiving station and is then directed to the gas turbines. Exhaust gases are dispersed via a stack, 35m in height, adjacent to each gas turbine building.

Process water is obtained from the town water reticulation system and treated via the demineralisation plant to meet process specifications. This process uses reverse osmosis technology with a non-regenerable mixed bed polisher unit and treatment wastes are pumped to the evaporation pond.

Approximately 1ML of the town water storage is held in reserve for firefighting purposes.

The basic components or structures involved in the facility are:

- Gas pipelines and gas fuel filter and reduction station
- Gas turbine buildings, transformers and exhaust stacks
- Water storage and demineralisation plant (reverse osmosis)
- Power control centre/building
- Emergency diesel generators and minor distillate tanks

- Fire control facilities
- Dangerous Goods store
- Stores building

Other support facilities include an office building and workshop. A storm water holding pond and several evaporation ponds are also constructed adjacent to the Plant.

Operational personnel consist of a Plant Manager and Plant Technicians, they carry out site operations, maintenance, safety and environmental duties, contract management and administrative requirements.

## 5.5 Dangerous Goods and Hazardous Substances

The associated Safety Data Sheets (SDS) and inventory of potential pollutants including quantity and location on site are kept at the Site Office, and the Red HAZCHEM box at the front gate.

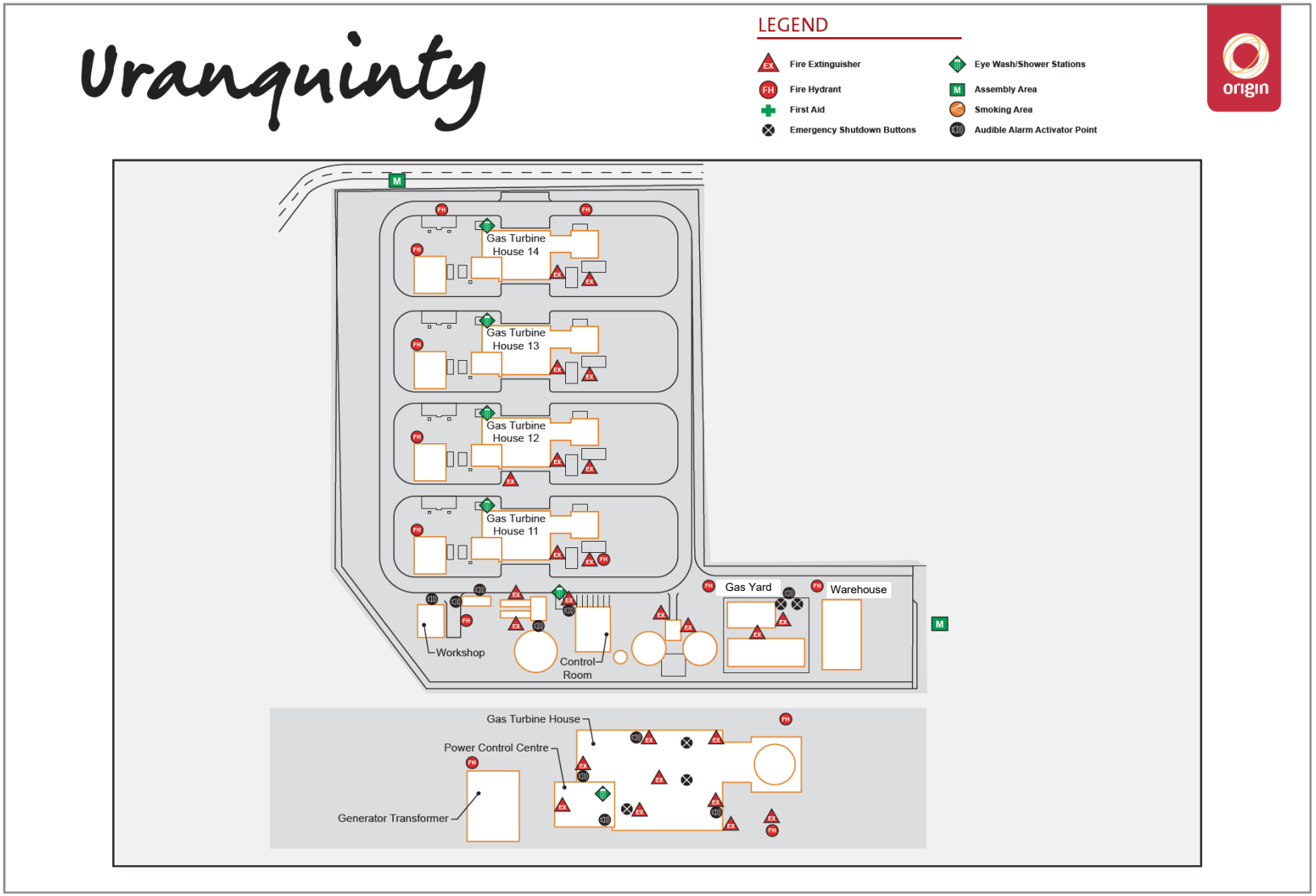



**Figure 3: Site Layout**

## 6. Roles and Responsibilities

Roles and responsibilities are presented in Table 6.

**Table 6: Emergency Roles and Responsibilities**

| Roles and Responsibilities | |
|---|---|
| **First Responder** | Responsible for:<br>1. Activating ESD/isolate equipment as necessary and if safe to do so;<br>2. Raising the alarm (report location, type and extent of incident) by radio or telephone to Site ERT Leader (if applicable);<br>3. Providing First aid, as required and if qualified to do so; and<br>4. Mustering. |
| **Site ERT Leader (Plant Manager or Duty Operator)** | Responsible for:<br>1. Responding to emergency;<br>2. Evaluating the emergency;<br>3. Coordinating the workplace emergency team;<br>4. Assisting emergency services personnel; and<br>5. Reporting outcomes of emergency response.<br>6. Briefing the emergency services on the current situation. |
| **Site ERT Members** | Respond to the situation as directed by the Site ERT Leader.<br>Perform key roles (appointed by the Site ERT Leader): |
| | **Information Officer** |
| | Responsible for:<br>1. Managing the potential increase in calls resulting from the event and to screen and effectively route calls relating to the event to the correct recipient; and<br>2. Completing an Emergency Response Log. This can be found in the UPS Emergency Response Toolkit - UPS-HSE-GDL-005 |
| | **Emergency Services Escort** |
| | Responsible for:<br>1. Escorting the emergency services upon arrival to where the Site ERT Leader is situated;<br>2. Providing information relating to site safety (e.g. prohibited items, personal protective equipment, hazardous/restricted areas); and<br>3. Debriefing the emergency services on the current situation. |
| **Contractor Liaison Officer** | All contractors, with five or more persons on site, will have their own designated Contractor Liaison Officer. They must submit their name before starting work to Origin personnel. They shall account for their own team and report to Site ERT Leader, and must carry a radio. |

| | |
|---|---|
| **Community Relations Representative (UPS)** | Responsible for:<br>1. Initial contact, early warnings and continued information updates to near neighbours and the media;<br>2. Provision of actions for near neighbours to undertake during or immediately after the pollution event based on advice from the UPS Site Manager.<br>3. Notification of termination of emergency situation and follow up communication. |
| **Regulatory Liaison (Generation Environment Advisor)** | Responsible for:<br>1. Initial contact, and continued information updates to NSW EPA and other Relevant Authority and the Department of Planning.<br>2. Notification of termination of emergency situation and follow up communication. |

If the Site ERT Leader is unable to undertake their responsibilities an alternate/delegate Site ERT Leader (with required training) shall be appointed to ensure that the Site ERT continues to function.

In the event of a Critical/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 Generation GEMP and Origin Energy's CMP.

## 7. Communications

Table 7 shows the communication resources available onsite that can be used in an emergency.

**Table 7: Communication Resources**

| Communication Resources | |
|---|---|
| Two-way Radios | 10 hand held portables and a Channel 41 repeater station mounted on GT12 Stack platform |
| Phones | 02 9627 0100 (or 02 9627 0141 for 24hours diverts to Duty Operator A/H) |
| Fax | 02 6927 0150 |

Where a need arises to contact local landowners in an emergency, this can be initiated by the Site ERT Leader.

Notifications required to regulatory authorities will be carried out as soon as practicable after the emergency situation is over, by the one up manager in consultation with the Site ERT Leader. Refer to Appendix 3 for Regulator Notification Requirements.

As necessary, stakeholder communications will be handled by the GEMT and are addressed in the Generation GEMP.

In the event of an emergency the following key stakeholders MUST be contacted and kept informed of the situation.

- MSC
- Trading
- APA

## 8. Emergency Equipment

The emergency equipment located onsite is listed in Table 8 to 12.

**Table 8: First Aid Equipment**

| First Aid Equipment | |
|---|---|
| **Equipment** | **Location** |
| Defibrillator | Control Room and GT13 |
| First Aid Kit(s) | Site Vehicles<br>Control Room<br>Workshop |
| Trauma Kit(s) | Control Room |
| Eye Trauma Kit | First aid kit only. No separate kit |
| Electrical Rescue Kit | Control Room<br>Balance of Plant Switch-room |

**Table 9: Fixed Gaseous Deluge**

| Fire Fighting Equipment – Fixed Gaseous Deluge | | |
|---|---|---|
| **Equipment** | **Location** | **Comments / Details** |
| Inergen Fire System<br><br>Containing CO2 and Inert Gas Mixture under pressure | Server Room<br><br>Balance of Plant Switchroom (BOP)<br>Each Unit Power Control Center (PCC) | 2 x 16.6 M3 Automatic and Manual release fire suppressant gas release to Server Room.<br><br>5 x 16.6 M3 Automatic and Manual fire suppressant gas release to BOP Switchroom<br><br>7 x 16.6 M3 Automatic and Manual fire suppressant gas release to each unit PCC |
| Notes:<br>• Prior to activation there is an audible / visual warning with a 30 second delay before activation.<br>• Ventilation of the area post activation through normal ventilation fans after a system reset. | | |

**Table 10: Firewater and Foam**

| Fire Fighting Equipment – Firewater and Foam | | |
|---|---|---|
| **Equipment** | **Location** | **Comments / Details** |
| Town water storage | B/W Admin building and gas yard | 1ML held in reserve for firefighting purposes. |
| Fire Pump Station with electric pump and diesel back up | Between Raw Water Tanks 1 and 2 | Outlets at Pump Station in addition to ring main<br>Low pressure 1 x 165.1mm and 2 x 65mm<br>High pressure 4 x 65mm |
| Fire hydrants on ring main<br>(see figure 3 p13 site overview) | GT12 and GT13<br>2 x External | Cabinets contain 2 x 65mm x 30 Meter fire hoses and spray nozzle |

| Fire Fighting Equipment – Firewater and Foam | | |
|---|---|---|
| **Equipment** | **Location** | **Comments / Details** |
| | GT11 and GT14<br>3 x External | Cabinets contain 2 x 65mm x 30 Meter fire hoses and spray nozzle |
| | GT All Units 5 x Internal | Cabinets contain 1 x 65mm x 30 Meter fire hose, spray nozzle and all internal cabinets also contain foam equipment (20 litres) |
| | Gas Receival yard | Cabinets contain 2 x 65mm x 30 Meter fire hoses and spray nozzle |
| | Fire pump station | Cabinets contain 2 x 65mm x 30 Meter fire hoses and spray nozzle |

**Table 11: Portable Fire Protection**

| Fire Fighting Equipment – Portable Fire Protection | | |
|---|---|---|
| **Equipment** | **Location** | **Comments / Details** |
| Fire Extinguishers<br>(See Figure 3 p13 - site overview) | Gas Turbines (GT) | Each unit has:<br>2 x 3.5kg CO2 and 2 x 4.5kg DC External to Turbine building<br>8 x 3.5kg CO2 and 6 x 4.5kg DC Inside Gas Turbine buildings<br>2 x 3.5kg CO PCC and 1 x 3.5kg C02 insider battery room<br>1 x 9kg AB(E) top of unit |
| | Diesel Generators | Each Diesel Gen-set has<br>1 x 3.5kg CO2 and 2 x 4.5kg DC |
| | Hazardous Materials Storage | 2 x 3.5kg CO2 and 2 x 4.5kg DC |
| | Pump House | 2 x 3.5kg CO2 and 2 x 4.5kg DC |
| | Workshop | 3 x 3.5kg CO2 and 3 x 4.5kg DC |
| | Warehouse | 2 x 4.5kg DC |
| | Admin/Control Room | 5 x 3.5kg CO2 and 5 x 4.5kg DC |
| | Gas Receival Yard | 2 x 3.5kg CO2 and 2 x 4.5kg DC |
| | Water Treatment Plant | 1 x 3.5kg CO2 and 1 x 4.5kg DC |
| | BOP Switchroom | 1 x 3.5kg CO2 and 2 x 4.5kg DC |
| | Training Portacom | 1 x 3.5kg CO2 and 1 x 9kg AB(E) |
| | Vehicles- Ute | 1 x 2.5kg AB(E) in each Ute |

Table 12: Safety Equipment

| Safety Equipment | | |
|---|---|---|
| **Number** | **Equipment** | **Location** |
| 7 | Combination Safety Shower / Eyewash units | 1 x Units 11,12, 13, and 14 on stairway level<br>1 x Inside Demineralised Water Treatment Plant<br>1 x Outside Demineralised Water Treatment Plant<br>1 x Hazardous materials storage<br>4 x Units outside PCC Battery rooms |
| 2 | LV Rescue Equipment | Control Room and BOP Switchroom |
| 6 | Spill Response Kits (Hydrocarbons) | Turbine Buildings x 4<br>Hazardous Materials storage<br>Emergency Diesel fire pump |
| 8 | Shovel | 2 in each turbine |
| | Bunting | Bunting available from Permit Office |

# 9. Emergency Control

## 9.1 Operations Shutdown

Table 13 below illustrates the systems available on site to shut down plant and process.

Table 13: Emergency Shutdowns

| Emergency Shutdowns | | |
|---|---|---|
| **Equipment** | **Location** | **Comments / Notes** |
| **Main Gas Supply 400mm line** | ESD Yard<br>Emergency Gas Shut Off Valves | • Emergency shut off undertaken remotely:<br>– from the Control Room (also shuts down 50mm line)<br>– by plant technician from lap top<br>– by APA (gas supplier)<br>– by Traders when given access.<br>• Emergency shut off button on gas heater control panel in Gas Receival Yard (also shuts 50mm line).<br>• Manual valve on main ESD in ESD yard. |
| **Main Gas Supply 50mm line** | ESD Yard<br>Emergency Gas Shut Off Valves | • Emergency shut off undertaken remotely:<br>– from control room (also shuts down 400mm line)<br>– by plant technician from lap top.<br>• Emergency shut off button on gas heater control panel in Gas Receival Yard (Same button as 400mm).<br>• Manual valve on ESD in ESD yard. |
| **Units 11-14** | Final Filter Yards | • Emergency shut off undertaken remotely within the Control Room. |

| Emergency Shutdowns | | |
|---|---|---|
| **Equipment** | **Location** | **Comments / Notes** |
| **Gas Supply** | | • Manual valves located on the ESD Valves in Final Filter Yards. |
| **Units 11-14** | Turbine Emergency Stops | • One on each side of the turbines.<br>• Emergency stop to the east of the stairs accessing lube oil tank will also trip turbine but does not trip lube oil pumps.<br>• PCC – inside Southern doorway. |
| **Units 11-14** | Static Excitation Equipment | • Static Excitation Control Cubicle 2 in PCC (will also trip turbine). |
| **Units 11-14** | Lube Oil Pumps | • Emergency shut off undertaken remotely within the Control Room with the fire protection trip which also trips the turbine and vents gas from turbine hall.<br>• Blue break glass alarms are for turbine oil system shutdown and trip turbine and vent gas externally. They are located inside the turbine hall doors and on the southern entry to the PCC. |
| **Gas Hot Water Heaters** | Gas Receival Yard | • Individual gas water heater shut downs on the individual control panels.<br>• Individual gas water heater shut downs on North West corner of each gas water heater to the left of sliding covers on end of heaters. |
| **Electric Gas Heater** | Gas Receival Yard | • Emergency shut off button on control panels for gas water heaters. |

General Notes:

Every turbine trip will also vent gas from the turbine buildings

- Blue break glass alarms are for turbine oil system shutdown and vent gas externally.
- Red break glass alarms are fire alarms.
- The following Red manual break glass alarms will also trip turbine and vent gas:
  - inside the turbine hall doorways
  - at the PCC
  - SW corner of the Oil cooler fin fans
  - SE corner of the gas final filter yards.
- Red break glass fire alarms located on the Emergency Diesel generators and Diesel Fire Pump will trip those units (NOTE red break glass inside northern entrance door to turbine hall is located on side of fire alarm control panel).

## 9.2 Activation of Emergency

If personnel discover an emergency at Uranquinty Power Station the alarm can be raised using the following methods:

- In person;
- Radio (channel 41 repeater) and announce “Emergency” “Emergency” “Emergency”; and/or
- Mobile phone and/or landline phone Phone 02 6927 0141
- Fire System Break Glass

When raising an emergency be prepared to provide the following details:

Announce “Emergency” “Emergency” “Emergency”

- State your name;
- Nature of emergency; (fire, gas leak, chemical spill, vehicle accident etc.)
- Location of emergency; (as precise as possible)
- Number and Nature of Injuries;
- Assistance Required;
- Repeat message to ensure it is understood.

## 9.3 If / Once the Evacuation Alarm is Raised and Evacuating

When the alarm is raised, the following steps shall be followed:

- 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/abandoned, pull over and park it in a safe area to ensure that access/egress to any parts of the site is not impeded, switch off the vehicle and leave keys in the ignition; and
- Plan a safe route to the muster area and avoid movement through unsafe areas.
- Ensure all visitors are escorted to the muster area

The primary muster point is located at Main Gate. If the primary muster point is compromised an alternate muster point is located at the Gate on the Eastern site boundary near the corner of the Northern boundary near GT 14.

When assembled at the muster point:

- The Site ERT Leader or delegate (ERT Member) will account for all persons;
- If a person is determined missing, the Site ERT Leader shall assist Emergency Services in a Search and Rescue, only if and when safe to so;
- All personnel shall standby at muster point until stood-down or instructed to evacuate the site;
- 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<br>(single tone repeating) |
|  | Evacuation Siren<br>(sweeping tone repeating)<br>REQUIRES PERSONS ONSITE TO MUSTER |
| Verbal “Evacuate” | Verbal Evacuation |
| Verbal “All Clear” | All Clear |
| Strobes in Turbine Hall | Evacuate Building |

## 10. Scenario Responses

Please see the UPS Emergency Response Task Cards – UPS-HSE-FRM-002 which outline the responses for situations classified as emergencies.

### 10.1 Termination of Emergency

The emergency status is to be maintained until instruction is given by the Site ERT Leader that the emergency is over. If necessary, inform all involved parties that the situation has been controlled and the emergency is over.

An incident investigation shall be carried out 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 not disturbed, 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 (i.e. weather, wind direction etc.); and
- Where a serious injury or fatality has occurred, work may not be resumed until permission has been received from the relevant government agency.

### 10.2 Recovery Actions

Prior to the resumption of work, complete the following:

- Check plant and equipment for structural, physical and electrical/instrumentation integrity;
- Ensure all active fire protection measures are restored (i.e. foam replaced);
- Replenish emergency response equipment as required;
- Ensure pollution potential has been managed and eliminated, and
- Replace/return any third-party emergency equipment.

In addition, consider the following points:

- Personnel involved may require counselling (Employee Assistance Program – 1800 056 076), depending on the nature of the incident;
- A debrief of personnel should be conducted, with all relevant information captured for a ‘lessons learnt’;
- Conduct a tool box talk on specific start up activities prior to commencing work; and
- Emergency response plans and training may need to be revised prior to a resumption of activities.

### 10.3 Post Incident Clean-Up

Post incident clean-up will be carried out under the following principles:

- Initial inspection is conducted to identify extent of equipment/plant damage;
- Assess potential decontamination needs (e.g. removal of chemicals/oil/foam from plant/equipment, contaminated soil etc.);
- All contaminated material will be stored in proper containers pending offsite disposal by licensed hazardous waste contractors;
- Repair or replacement of damaged equipment/plant;
- Inspection and testing of equipment; and
- Commissioning and site reinstatement.

### 10.4 Training

All personnel shall be provided with specific instruction and training on how to respond to emergencies and on the use of emergency equipment available at UPS.

### 10.5 Drills and Exercises

Drills and exercises shall be carried out to ensure that all personnel are familiar with the actions to be taken in the event of an emergency. Responses to scenarios will be discussed periodically in conjunction with toolbox talks at site.

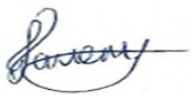
- 6 months an evacuation exercise is held testing the emergency response planning.
- 12 months an exercise is held to include internal reporting/escalation to the Group Emergency Management Team
- 12 months an environmental incident exercise is held which may include community liaison, internal reporting/escalation to the Group Emergency Management Team
- 2 yearly an exercise is held to include the Emergency Services.

The effectiveness of the exercise in conjunction with the ERP is to be evaluated and documented. Where inadequacies are identified, they should be addressed through assigning appropriate corrective actions and ensuring that the actions are closed. All exercise reports and associated actions are to be recorded and tracked using OCIS.

The dates and review of drills and exercises held on site will be determined by the Site Plant Manager.

Annual testing in line with the PIRMP requirements are detailed in the table below:

**Table 14: PIRMP Testing**

| PIRMP Testing | | |
|---|---|---|
| **PIRMP Test Date** | **Tested By** | **Signature** |
| 7 & 8 November 2023 | Jarryd Lavery (as well as Gordon Willcocks and Debbie Liew) |  |
| 11 September 2024 | Jarryd Lavery |  |

## 11. External Stakeholders Community Impact

Serious environmental or site emergency may have an impact on surrounding neighbours and will be managed by:

### 11.1 Community Liaison

The UPS Community Relations Representative will co-ordinate –

- Initial contact, early warnings and continued information updates to near neighbours and the media;
- Provision of actions for near neighbours to undertake during or immediately after the pollution event based on advice from the ERT Site Leader.
- Notification of termination of emergency and follow up communication.

### 11.2 Near Neighbour Locations

Near neighbour property location and property owners is detailed in Appendix 6a. Near Neighbour Location Map. The UPS Community Relations Representative will be responsible for continually updating this map as required.

### 11.3 Near Neighbours Contact Details

Near neighbour contact details are detailed in Appendix 6b. Near Neighbour Contact Details. The UPS Community Relations Representative will be responsible for continually updating this contact list as required.

## 12. Review and Update

The ERP will be reviewed and updated as necessary fulfilling the following condition:

- Every year following Pollution Incident Response Management Plan (PRIMP) testing; or
- When major changes which may affect the Emergency Response coordination or capabilities have occurred; or
- Following routine testing of the plan; or
- Following an actual emergency; or
- Before the installation and commencement of 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/technology in handling an emergency;
- Changes to, or movement of personnel within the 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.
- Local police and emergency services are engaged, and opportuties for site familiarization agreed upon and carried out where practicable within the 12-month period

## 13. References - Legislation and Industry Standards

- Work Health and Safety Act 2011 (NSW)
- Work Health and Safety Regulation 2017 (NSW)
- State Emergency and Rescue Management Act 1989 (NSW)
- Australasian Inter-Service Incident Management System, Version 2017 – AFAC
- AS 3745-2010 Planning for emergencies in facilities
- Guide for Major Hazard Facilities: Emergency Plans. Safe Work Australia.
- Guideline for emergency plans at sites having hazardous chemicals. Fire and Rescue NSW
- HB 76-2010 Dangerous goods - Initial emergency response guide
- ISO 15544 – 2000 Petroleum and natural gas industries – Offshore production installations – Requirements and guidelines for emergency response

## 14. Definitions

| Term | Definition |
|---|---|
| AC | Alternative Current |
| CMP | Crisis Management Plan |
| CMT | Crisis Management Team |
| CO2 | Carbon Dioxide |
| DC | Direct Current |
| DCP | Dry Chemical Powder |
| ERP | Emergency Response Plan |
| 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 | Mega litre |
| MW | Megawatt |
| OCIS | Origin Collective Intelligence System |
| PIRMP | Pollution Incident Response Management Plan |
| SDS | Safety Data Sheet |
| UPS | Uranquinty Power Station |

## 15. Document Control

| Author (To whom any changes are to be recommended) | | | |
|---|---|---|---|
| **Position** | | **Incumbent** | |
| Uranquinty Power Station Plant Manager | | Harold Villalba Tapia | |
| **Stakeholders and other contributors** | | | |
| **Position** | | **Incumbent** | |
| Gen ER & Sec Specialist | | Mel Sekava | |
| **Reviewed by** | | | |
| **Position** | | **Incumbent** | **Review date** |
| Principal Environment and Community Business Partner | | Jarryd Lavery | 20/11/2024 |
| Group Manager, HSEC - Generation | | Gemma Dobson | 20/11/2024 |
| **Approved by** | | | |
| **Position** | | **Incumbent** | **Approval date** |
| Uranquinty Power Station Plant Manager | | Harold Villalba Tapia | 20/11/2024 |
| **History** | | | |
| **Date** | **Author** | **Version** | **Nature of change** |
| 19/01/2010 | MH | 1.0 | Initial release |
| 21/04/2011 | RP | 2.0 | Minor change: template update |
| 11/2011 | RP | 3.0 | Review personnel |
| 17/08/2012 | Guy Corbett | 4.0 | Major change: Environmental Management |
| 26/10/2012 | J van Asperen | 5.0 | Minor change: contact details |
| 12/2013 | Brendan Ryan | 6.0 | Major change: firefighting equipment drawings and Task Cards, reference documents, DG and Hazardous substances table, regulatory |
| 07/2014 | Brendan Ryan | 7.0 | Minor change: site plan update (warehouse and Gas yard) |
| 01/2016 | Brad Stewart | 8.0 | Review and minor updates |
| 02/2017 | Tyrone Peck | 9.0 | Major change: align with HSE System Directive and ORG-RMS-PRO-006 Emergency Management Procedure |
| 01/02/2018 | Tyrone Peck | 10.0 | Minor change: EAP contact details |
| 14/02/2019 | Paul Olsen | 10.1 | Minor change: template update Notification and Escalation update |
| 22/09/2020 | Mel Sekava | 10.2 | Minor change: review; Added Lone worker actions |

| | | | |
|---|---|---|---|
| 20/12/2021 | Mel Sekava | 10.3 | Minor change: Change task card reference |
| 06/05/2022 | Mel Sekava | 10.4 | Reviewed – no change |
| 18/01/2023 | Paul Olsen | 10.5 | Reviewed - minor |
| 11/10/2023 | Harold Villalba | 10.6 | Reviewed - minor |
| 20/11/2023 | Jarryd Lavery | 10.7 | Update following PIRMP Test |
| 01/02/2024 | Jarryd Lavery | 10.8 | Update following PIRMP Test |

| **Related documents** | |
|---|---|
| **Title** | **Document ID** |
| Emergency Management Procedure | ORG-RMS-PRO-006 |
| Origin HSE System Directive Element 10 Emergency Response | ORG-HSE-DVE-102 |
| GEN Group Emergency Management Plan | GEN-HSE-GEMP |
| GEN Emergency Response Task Cards | GEN-HSE-FRM-050 |
| UPS Bush Fire Management Plan | UPS-HSE-PLN-006 |
| UPS HSE Management Plan | UPS-HSE-PLN-004 |
| UPS Emergency Response Toolkit | UPS-HSE-GDL-005 |
| UPS Environmental Management Plan | UPS-ENV-PLN-001 |
| UPS Gas Safety Operating Plan | UPS-AMS-PLN-007 |

| **Review Requirements** |
|---|
| This document is next due for review 20 November 2025 by Uranquinty Power Station Plant Manager |

| **Controlled Document Location** |
|---|
| OpenText ID: 36030028 |

## Appendix 1 – Dangerous Goods and Hazardous Substances Register (Minor and Major Storage)

| Substance Name | Un Number | Approx. Volume | Location |
|---|---|---|---|
| Natural Gas | UN 1971 | | Metering Station |
| Natural Gas | UN 1971 | | Buffer Volume |
| Diesel | UN 1993 | 2 x 2,500 L | Diesel Generator |
| Diesel | UN 1993 | 1 x 500 L | Fire Pump Area |
| Diesel | UN 1993 | 1 x 200 L | Hazardous Store |
| Hydro 801 | | 1,000 | Hazardous Store |
| Shell Turbo T46 | | 2 x 1,000L<br>2 x 200L | Hazardous Store |
| Shell TELLUS 46 | | 1 x 200 | Hazardous Store |
| Ardrox 6367 | | 4 x 200 | Hazardous Store |
| Sodium Hydroxide (25%) | UN 1824 | 1 x 2,000 L | Water Treatment Plant |
| ICES 4-1355S | | 1 x 2,000 L | Water Treatment Plant |
| Inergen Cylinders | UN 1956 | 4 x (7x “G” cylinders) | GT 11, 12, 13 and 14 PCC |
| Inergen Cylinders | UN 1956 | 1 x (5x “G” cylinders) | BOP PCC |
| Inergen Cylinders | UN 1956 | 1 x (2x “G” cylinders) | Control room server |
| Nitro Libra (in service) | | 4 x 46,000 L | GT 11, 12, 13 and 14 Transformers |
| Shell Turbo T46 (in service) | | 4 x 25,000 L | GT 11, 12, 13 and 14 Lube Systems |
| Shell TELLUS 46 (in service) | | 4 x 400 L | GT 11, 12, 13 and 14 Hydraulic Systems |

## Appendix 2 – A Guide to 000

'000' is the number to call for life threatening emergencies requiring the attendance of Police, Fire Brigade or Ambulance. Below is a brief procedure to help you provide emergency services with the most relevant information quickly and concisely.

| Emergency Call Procedure | |
|---|---|
| 1 | Dial 000<br>You will hear a pre-recorded message stating: 'You have dialed emergency triple zero. Your call is being connected"<br>Stay on the line and wait for the Emergency Call Operator to answer your call. |
| 2 | The Emergency Call Operator will answer with: "Emergency - Police, Fire or Ambulance?"<br>Request the service that is most urgently needed in terms of threat to life or property. For example, in cases where people are seriously injured ask for 'Ambulance'. The service requested will organise for other services to attend if necessary. |
| 3 | The Emergency Call Operator will transfer you to the requested Emergency Service in your town or area. This will occur automatically if you are calling from a landline. If you are calling from a mobile you will need to provide the Emergency Call Operator with the name of your State (e.g. Queensland, Victoria) and name of your town or suburb. |
| 4 | The requested emergency service will answer the call. You will be asked for information about the incident. Examples of the questions you may be asked are listed overleaf. |

| Police | Fire | Ambulance |
|---|---|---|
| Where is your emergency?<br>What has happened?<br>When did this happen?<br>Who are you and where do you live?<br>Other questions depending on the situation. | What type of emergency is it and is there an immediate threat to life and property?<br>Where is your emergency- e.g. Name of street, freeway, landmarks that you may be aware of in the immediate vicinity. | What is the exact location of the emergency?<br>What exactly has happened there?<br>How many people have been injured?<br>How old is each injured person?<br>Are all injured persons conscious?<br>Are all injured persons breathing? |

**REMEMBER TO STAY FOCUSED, STAY RELEVANT, STAY ON THE LINE**

## Appendix 3a - Regulatory Notification Requirements

| | |
|---|---|
| WorkCover NSW | **Incidents involving injury or illness to workers** |
| | Occupiers of workplaces/employers notify in the following manner:<br>Notifiable incidents involving a fatality or, a serious injury or illness, or a dangerous incident.<br>(Refer to Part 3 of the WHS Regulation Act 2011):<br>• Phone WorkCover IMMEDIATELY on 13 10 50 as an urgent investigation may be needed; and<br>PLUS, notify your workers compensation insurer within 48 hours. |
| | **Incidents involving injury or illness to non-workers at your workplace** |
| | (i.e. those not covered by your workers compensation e.g. a visitor, customer, volunteer, student, contractor)<br>Notifiable incidents involving a fatality or, a serious injury or illness, or a dangerous incident. Refer to Part 3 of the WHS Regulation Act 2011):<br>• Phone WorkCover IMMEDIATELY on 13 10 50 as an urgent investigation may be needed; and<br>PLUS, notify WorkCover within 7 days with full notification details using the online form or phone 13 10 50. |

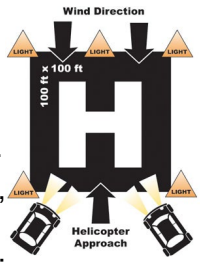
## Appendix 3b – Environmental Incident Regulatory Notification Requirements

| Duty to Notify Pollution Incidents | |
|---|---|
| What must be notified: | Pollution incidents causing or threatening material harm to be notified.<br>Meaning of "Harm":<br>a. Harm – actual or potential harm to health/safety of humans or to ecosystem that is not trivial or results in actual loss or property damage of an amount exceeding $10,000.<br>b. Loss – Includes all reasonable costs and expenses that would be incurred preventing, mitigating or making good damages.<br>Under this section it does not matter if the pollution event did not go off-site. Pollution events on-site that meet these criteria have to be notified. |
| Who to Notify (External): | • NSW EPA<br>• NSW DPE<br>• Other Appropriate Regulatory Authorities (as required) –<br>○ Ministry Health<br>○ NSW WorkCover<br>○ NSW Fire and Rescue |
| Contact Details (External): | • NSW EPA - 131 555 (local call cost throughout NSW except from mobile phones), or (02) 9995 5555 (if calling from outside NSW).<br>• NSW DPE- 02 9228 6111<br>• Other Appropriate Regulatory Authorities (as required) –<br>○ Ministry Health – 02 9391 9000<br>○ NSW WorkCover – 131 050<br>○ NSW Fire and Rescue – 000 (Emergency), Sydney Head Office – 02 9265 2999, Wagga Fire Station – 02 6921 4375 |
| Timeframe (External): | • NSW EPA or other Relevant Regulatory Authority –<br>Verbal notification IMEDIATELY and full written details within seven days of incident occurring.<br>• NSW DPE –<br>Verbal notification as soon as practicable and full written details within seven days of incident occurring. |
| Notification Details (External): | a. Verbal notification first off followed by written notification.<br>b. Relevant information required –<br>• Time, date, nature, duration, location<br>• Location of place pollution occurring from<br>• The nature, concentrations, quantity of pollutant<br>• Circumstances (causes)<br>• Action taken or proposed actions to deal with incident. |
| External Notification to be Undertaken By: | HSE Manager - Generation, or delegate<br>Depending upon the circumstance notification should be made by the site Environmental Representative. Contact HSE Group for advice. |

## Appendix 4 – Emergency Helicopter Landing Zones

**NOTE: Ambulance service to determine if a helicopter is required**

### Landing Zone Requirements




**SIZE**: 100 feet by 100 feet.

**LEVEL**: Select a landing area as level as possible (minimal slope).

**LANDING SURFACE:** Hard or grassy surface. Avoid loose dust/dirt.

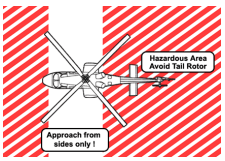
**CLEAR OVERHEAD:** Free of overhead obstructions (wires, antennas, poles).

**CLEAR AREA:** Area is clear of debris, large rocks, posts, stumps, vehicles, people, animals, and other hazards.

**MARK AREA:** Clearly marked using five weighted cones, flares, or beacons: one at each corner and one on the side that the wind is coming from. (smoke is helpful if remote).

**SELECT ALTERNATE LANDING ZONE:** Plan for alternate Landing Zones.

### Important Tips




Approach angles over obstacles should be less than 20 degrees.

Always keep landing zone clear of people and other potential hazards.

Approach from 3 and 9 O'clock positions only (side of helicopter).

### Night Landing Zone

Night landing zones always require good communications, lighting and alertness.

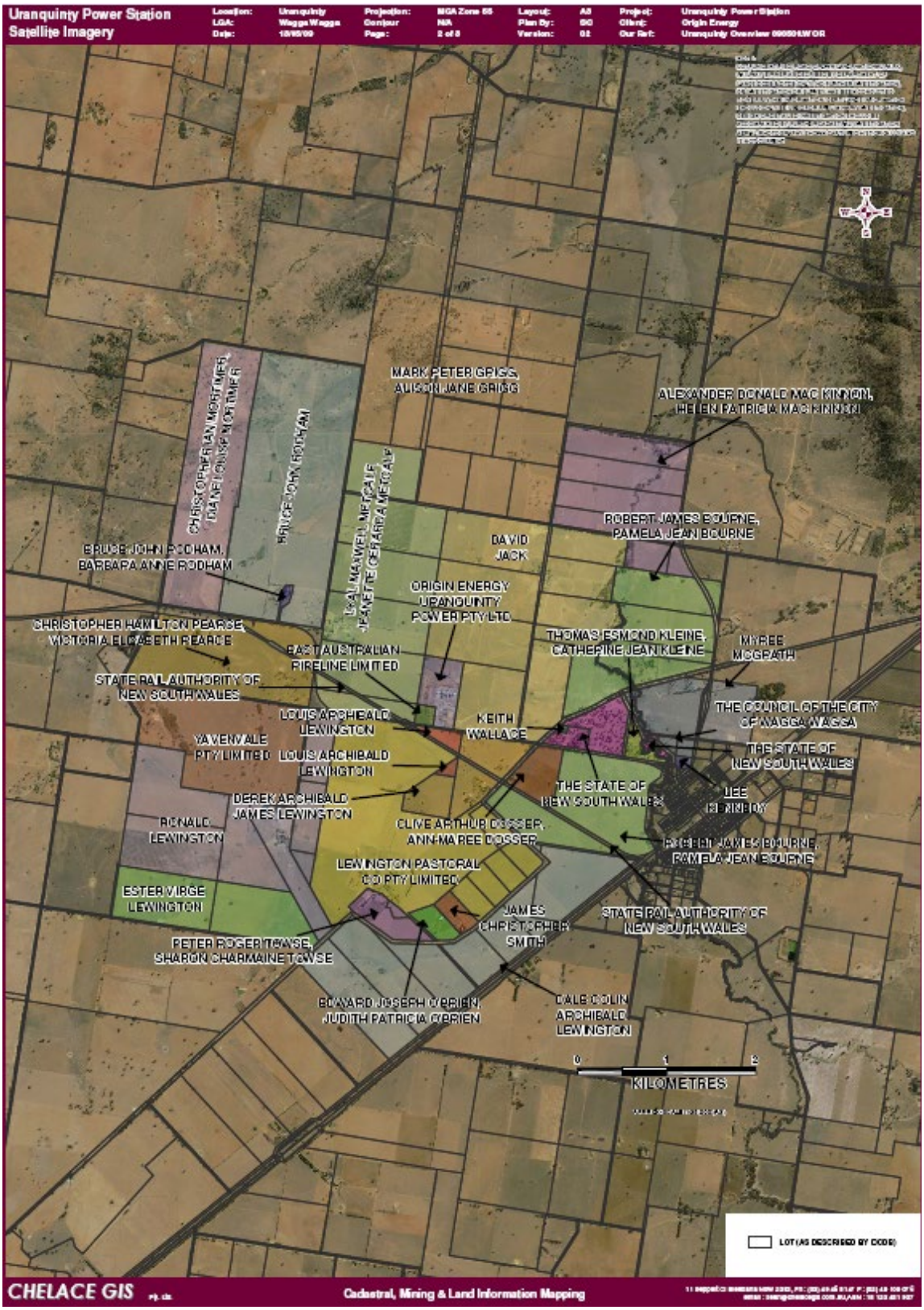
Set up night landing zone with five flares or other secured lights.

One flare should be on the side that the wind is coming from.

If no flares are available mark with strobes, or other light systems.

If no other portable lights are available, cross headlight beams into the wind at the centre of the landing zone.

## Appendix 5a – Near Neighbours Locations



## Appendix 5b – Near Neighbours Contact Details

Neighbours Contact List – due privacy requirements see Site Manager

## Appendix 6 – Distribution List

| No. | Name | Position, Organisation | Location |
|---|---|---|---|
| 1 | UPS Control Room | Origin Generation | Wagga Wagga, NSW |
| 2 | ERT Toolkit UPS | Origin Generation | Wagga Wagga, NSW |
| 3 | Emergency Box UPS | Origin Generation | Wagga Wagga, NSW |

## Appendix 7 – Contents of Emergency Control Room

### Emergency Control Room Checklist

- Emergency Plan (contents should be checked regularly) ☐
- Two-way communication i.e. radios (if in use) ☐
- 2 x Telephones (dedicated lines, caller ID and speaker capability) ☐
- Fax machines (in room or nearby) (if applicable) ☐
- Computer(s) with internet and network connection ☐
- Data projector and screen ☐
- Emergency power and lighting ☐
- Whiteboards (electronic) ☐
- Flip charts ☐
- Printer (in room or nearby) ☐
- Relevant contact directories ☐
- Television ☐
- Stationery material (calculators, pens, blank pads, highlighters, staplers, punches etc.) ☐
- Clocks (multiple time zones) ☐
- Current operational site maps and drawings as follows:
  - Map of Site facilities ☐
  - Map of Environmental Sampling Points ☐
  - Aerial Photographs Project Areas ☐