

GE Vernova – GE Australia PL

Pollution Incident Response

Management Plan (PIRMP)

Silverton Wind Farm

EPL 20882

EHS_ANZ_STWF_ONW_E9.0_P0001

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3	30.05.19	Review AGL Commentary	K.Sage	S.Holleman	S.Holleman
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1 INTRODUCTION

Silverton Wind Farm is located in the Barrier Ranges of NSW. Its south-western boundary is approximately five kilometers north of Silverton and approximately 25 kilometers north-west of Broken Hill. The wind turbines are located over the Mundi Mundi Range in the southern portion of the site and Mount Robe Range in the northern portion of the site.

The 200 MW Silverton Wind Farm is the first greenfield development for the Powering Australian Renewables Fund (PARF). A joint venture consisting of GE and CATCON was contracted for the engineering, procurement and construction of the wind farm works. The project scope also included connection works to an onsite substation operated by TransGrid. Construction of the Silverton Wind Farm Project began in May 2017 and was completed in 2019.

At the time of writing this revision, all 58 wind turbines have been constructed and commissioned and the Project is in the operations phase. The operation of the wind farm is managed by GE.

This Pollution Incident Response Management Plan (PIRMP) has been prepared in accordance with the legislative requirements for a PIRMP prescribed in the Protection of the Environment Operations (POEO) Act, the POEO (General) Regulation 2009 (POEO(G) Reg), the POEA Amendment Regulation 2012 (POEO Reg Amendment) and the conditions in the Project Environment Protection Licence No. 20882 (EPL). The application of these requirements is summarised in Attachment E.

The PIRMP is also relevant to the Environmental Management Strategy (EMS), the Emergency Response Management Plan (ERMP) and the Bushfire Management Plan. This PIRMP only applies to the land holdings as detailed in the EPL and does not apply to the TransGrid 220kV transmission line (on part of Lot 6481 DP 769310 and part Lot 47 DP 760243).

2 BACKGROUND

The requirement for this PIRMP is from the Environmental Protection Licence (EPL) No. 20882 that is held by GE INTERNATIONAL INC (as of 11 January 2019). The EPL, which is issued under the POEO Act, applies to the operation of 58 wind turbines and associated infrastructure.

In accordance with the EPL, this PIRMP documents what pollution prevention measures are in place and the response to manage pollution incidents associated with the Silverton Wind Farm.

Part 5.7A of the POEO Act requires all licensees to prepare, keep, test and implement a PIRMP. Part 3A of the General Regulation sets out the specific information a licensee must include in their PIRMP. In summary, the requirements are:

- All licensees must prepare a PIRMP (section 153A).
- A PIRMP must be in the form required by the regulations and must include the information detailed in the POEO Act (section 153C) and the General Regulation (clause 98C).
- Licensees must keep the PIRMP at the premises the environment protection licence relates to, or where the relevant activity takes place (in the case of trackable waste transporters and mobile plant) (section 153D), and make certain parts of the PIRMP available on a publicly accessible website of the licensee, or alternatively provide a copy upon written request (clause 98D).
- Licensees must test their PIRMP in accordance with the regulations (section 153E and clause 98E).
- Licensees must implement their PIRMP immediately if a pollution incident occurs that causes or threatens material harm to the environment (as defined in section 147) (section 153F).



3 PURPOSE

This PIRMP outlines the procedures in place to minimise the risk of a pollution incident occurring at the Silverton Wind Farm Project.

The objectives of this PIRMP is to:

- Ensure comprehensive and timely communication of a pollution incident;
- Minimise and control the risk of a pollution incident through identification of risks and the development of planned actions to minimise and manage those risks;
- Ensure responsibilities are assigned and training in pollution incident response is undertaken; and
- Ensure the plan is implemented, tested and reviewed

A pollution incident (incident) is defined as potential or actual material harm to the environment, defined in Section 147 of the POEO Act as:

a) harm to the environment is material if:

(i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
(ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and

b) loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.

Reference to an incident within the PIRMP is reference to an actual or potential pollution incident only and does not relate to any other type of incident under the GE Future Gen management system.



4 ENVIRONMENTAL REQUIREMENTS LEGISLATION

Legislation relevant to pollution incident response management includes:

- Protection of the Environment Operations Act 1997 (POEO Act);
- Protection of the Environment Operations (General) Regulation 2009 (POEO(G) Reg);
- Protection of the Environment Operations (General) Amendment (Pollution Incident Response Management Plans) Regulation 2012 (POEO(G) Reg Amendment)

Legislative requirements for the PIRMP are listed in Attachment E.

5 ENVIRONMENTAL PROTECTION LICENCE

Environment Protection Licence (EPL) number 20882 has been issued for the Project for the scheduled activity of electricity generation. The EPL details conditions which must be complied with when undertaking the electricity generation works. Relevant conditions of the EPL for the PIRMP are listed below.

Condition	Requirement
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: (5) a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
R2.1	Notification of environmental harm must be made by telephoning the Environment Line service on 131 555. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: where this license applies to premises, an event has occurred at the premises; (b) where this license applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this license, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the license applies),
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
R3.3	The request may require a report which includes any or all of the following information: (a) the cause, time and duration of the event; (b) the type, volume and concentration of every pollutant discharged as a result of the event; (c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; (d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; (e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; (f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and (g) any other relevant matters.



5.1 NOTIFICATION REQUIREMENTS

Types of Incidents to be Notified.

Table 5.1 details the types of incidents required to be reported.

INCIDENT TYPE	DESCRIPTION
Works occurring beyond the EPL premised boundary	Where scheduled activities occur beyond the EPL premised boundary without prior approval from the EPA and the event meets the definition of pollution incident (Section 2.1).
Air quality	Where the emission of dust from the EPL premised boundary occurs as a result of activities being carried out in a manner that does not minimise or prevent the emission and meets the definition of pollution incident (Section 2.1).
Chemical spills	Where a chemical spill occurs either within or beyond the premised boundary where that cannot easily be remediated, and the event meets the definition of pollution incident (Section 2.1).
Waste disposal	Where waste is known to have been transported and/or transported to a place that cannot lawfully accept the waste and the event meets the definition of pollution incident (Section 2.1).

5.2 INFORMATION TO BE REPORTED

All relevant, known information regarding the incident will be communicated at the time of notification.

This includes:

- the time the incident occurred
- the date that the incident occurred
- the nature of the incident
- the duration the incident occurred
- the location of the incident
- the location of the place where pollution is occurring or is likely to occur
- the estimated quantity or volume and the concentration of any pollutants involved, if known
- the circumstances in which the incident occurred including the cause, if known
- the action(s) taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution, if known

As additional knowledge is gained throughout the Incident Response Process, the relevant authorities will be notified immediately after it becomes known. This includes:

- the estimated quantity or volume and the concentration of every pollutant involved
- the circumstances in which the incident occurred including the cause
- the action(s) taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution

A report, in compliance with EPL Condition R3, will be provided to the Environmental Protection Authority (EPA) within the required timeframes stipulated in the Condition.



5.3 ACTIONS TO BE TAKEN DURING OR IMMEDIATELY AFTER A POLLUTION INCIDENT

In the event of an incident GE will immediately implement this PIRMP. If a pollution incident occurs in the course of an activity at the premises so that actual or potential material harm to the environment is caused, GE personnel will immediately implement the Pollution Response Process.

5.4 NOTIFICATION PROCESS

Licence holders are required to report pollution incidents immediately (this means without delay) to all of the appropriate regulatory authorities.

These appropriate regulatory authorities are the:

Name	Email Address/Street Address	Contact No.
NSW Department of Industry – Lands Western Lands	western.region@crownland.nsw.gov.au	02 6883 5400
NSW Environment Protection Authority	info@environment.nsw.gov.au	131 555
Far West Local Health District	Kincumber House, Morgan Street Broken Hill NSW 2880	08 8080 1333
SafeWork NSW	contact@safework.nsw.gov.au	13 10 50
Fire and Rescue NSW	info@fire.nsw.gov.au	1300 729 579
Broken Hill City Council	council@brokenhill.nsw.gov.au	08 8080 3300

5.5 COMMUNICATING WITH LEASEHOLDERS OF THE LAND AND THE COMMUNITY

The two principal mechanisms for communicating with leaseholders of the land and the community about incidents occurring on the Silverton Wind Farm are as follows:

1. Project Website:

<https://www.agl.com.au/about-agl/how-we-source-energy/renewable-energy/silverton-wind-farm>

2. Community Consultative Committee:

<https://www.agl.com.au/about-agl/how-we-source-energy/renewable-energy/silverton-wind-farm/community-matters>

In the event of an emergency that affects leaseholders or adjacent landowners GE will notify all personnel by telephone.



6 RESPONSIBILITIES

In the event of an incident the personnel who are immediately involved on-site or witness the event are responsible to act appropriately by way of immediately notifying the event or the observation of a potential event to the Site Supervisor.

The personnel immediately involved are also required to act appropriately by, only if safe to do so, attend the event to try and cease the event or minimise its impact.

Table 6.1 details the names, position titles and 24-hour contact details of the key response personnel.

6.1 RESPONSE PERSONNEL CONTACT DETAILS

Position	Name	Contact Details
Lead Customer Service Manager GE Renewables ANZ	Damian Piasente (GE)	0419 805 925
Environment Co-Ordinator	Alana Philp (GE)	0439 715 836

7 PRE EMPTIVE-ACTIONS TAKEN

7.1 INSPECTIONS

Control measures will be inspected and assessed by GE staff. Inspection checklists for the Project will be developed by GE. The purpose of the checklist/s is to:

- provide a surveillance tool to ensure that safeguards are being implemented and housekeeping is maintained;
- identify where problems might be occurring;
- identify where sound environmental practices are not being implemented; and
- facilitate the identification and early resolution of problems.

Deficiencies and required actions will be analysed and prioritised at the completion of the inspection and timeframes for implementation of corrective actions agreed. Any non-conformances identified through the checklist process will be highlighted and an environmental concern report issued, or an environmental incident report completed in Gensuite.

The findings of inspections will be discussed at meetings and concerns raised will be considered by the GE project management team.

7.2 PRE EMPTIVE-ACTIONS IMPLEMENTED

Criteria	Pre Emptive-Actions Taken
Air	- Maintain compacted surface on site roads; - Stabilise and rehabilitate all disturbed areas to prevent or minimise dust generation; - Ensure vehicle speeds are below site speed limit during increased dust risk; and - Ensure all vehicles are properly maintained to minimise emissions.



Criteria	Pre Emptive-Actions Taken
CONTAMINANTS	- Regular equipment inspections and maintenance to detect and correct any potential oil or fuel leaks; - SDS consulted for safely handling oil, fuel and chemicals on site are in place; - Store all hazardous liquids in suitable containment areas; - Provision of suitable spill control equipment; - Provision of training in containment and recovery procedures; and - Monitoring of all systems over time to ensure effectiveness.
NOISE	- Compliance with approved working hours - Layout design to achieve compliance - Noise compliance assessments for operating wind farm - Reporting of noise compliance results and any mitigation Complaint investigation and responses - Operational controls to ensure noise compliance
WASTE MANAGEMENT AND SOIL CONTAMINATION	- Segregation of Wastes - Storage and handling procedures – covered waste storage skips or bins - Waste classification where required - Appropriate and compliant disposal of wastes - Testing, storage and treatment or disposal of contaminated soil - Ensure all Waste disposal contractors approved in GE System for use
ENVIRONMENTAL MANAGEMENT	- Ensure all hazards have been identified and are included in the Site Risk Register - Ensure all hazards are appropriately addressed by suitable control measures (risks acceptable) - Ensure that the management system provides regular inspections of the effectiveness of controls - Maintain Chemsafe information for the site and ensure that annual inventories of equipment is undertaken for all listed items - Reporting as required. - Testing of the PIRMP within every 12-month period.



8 INVENTORY OF POTENTIAL POLLUTANTS

The Chemaalert Site (Silverton Site) is an inventory of potential chemical pollutants which contains estimated quantities. This includes chemicals used in the operation of services and plant, equipment, assets and fuels.

The below table defines further details of pollutants and the List of Typical Main Pollutants for the Silverton Wind Farm

8.1 POLLUTANTS TYPICAL SILVERTON WIND FARM

Description Pollutant	Comments
AIR BASED EMISSIONS	
Dust	- From machinery and vehicles driving on haul roads
Fire	- Air Quality Management - Smoke from the fire can affect neighbours. generation;
Noise	- Emitted by plant, equipment and assets
SPILL TYPE EMISSIONS	
Class 3 flammable liquids e.g. Fuels including petrol-based fuels and. Combustible Liquids (C1 & C2) Lubricants and hydraulic oils and other	- For plant and equipment operations.
Other dangerous Goods classes e.g. Compressed gases, Corrosive substances, Oxidizing substances, Toxics and Other dangerous goods	- Used for a variety of purposes on site, - Usually in small quantities
Insulating Oil (waste oils, contaminated materials etc)	- Stored in suitable containers and areas bunded and protected - Used in accordance with SDS
Hydraulic Oil	- Stored in suitable containers and areas bunded and protected - Used in accordance with SDS
Cleaning Agents	- Stored in suitable containers and areas bunded and protected - Used in accordance with SDS
Sewage Effluent	- Pumped out of tanks -Removed from site by accredited Waste Disposal Contractor
OTHER EMISSIONS	
Waste	- Segregation of Waste (Timber, Plastic, Steel etc.)
Treated packaging	- Segregation of Waste (Timber, Plastic, Steel etc.)



9 INSTALLED POLLUTION CONTROL MEASURES

9.1 INSTALLED POLLUTION CONTROL MEASURES DURING OPERATIONS

Description Pollutant Product	Storage Details
Fuels (Diesels, Petrol)	- Only small amounts >5 litres available in storage areas - Fuels are to be located in bunded area located in Site Workshop and segregated as per SDS Information
Lubricants	- Storage in dedicated cabinets / containers at compound during Operations and Maintenance Facility during operations - Transport around site in dedicated containers - Lubricants segregated as per SDS Information
Coolants	- Storage in dedicated cabinets / containers at compound during Operations and Maintenance Facility during operations - Transport around site in dedicated containers - Coolants segregated as per SDS Information
Solvents	- Storage in dedicated cabinets / containers at compound during Operations and Maintenance Facility during operations - Transport around site in dedicated containers - Solvents segregated as per SDS Information - All Waste Oil generated shall be stored in drums in the oil store / bunded area prior to transport off site for disposal.
Paints	- Storage in dedicated cabinets / containers at compound during Operations and Maintenance Facility during operations and stored only in original container - Transport around site in dedicated containers - Solvents segregated as per SDS Information



10 ACTIONS TO BE TAKEN BEFORE, DURING AND IMMEDIATELY AFTER A POLLUTION INCIDENT

10.1 ACTIONS TO MINIMISE A POLLUTION INCIDENT

The following actions have been undertaken or are ongoing and aim to minimise the risk of a pollution incident occurring, and minimise the potential impacts of the incident:

- A Pollution Incident Risk Assessment has been undertaken and is included in Attachment D. This assessment has been completed for the Silverton Wind Farm to identify the risks associated with activity, put management measures in place to reduce the likelihood of any significant risks occurring and therefore minimise the likelihood of a pollution incident
- Regular inspection of the integrity of chemical bundling, containers and workshop areas at Silverton Wind Farm to identify any potential for an incident due to wear and tear or physical damage on a regular basis. This combined with regular maintenance helps to minimise the likelihood of an incident.
- Staff Training in the storage and handling of liquids, clean-up of spills and emergency procedures helps to minimise the likelihood of an incident occurrence and prevents a small issue escalating into an incident (Details in GE Silverton Wind Farm Induction)

Also refer to 7.1 and 7.2 within the document as they also discuss pre-emptive measures.

10.2 ACTIONS TO BE TAKEN DURING A POLLUTION INCIDENT

If a pollution incident occurs, the GE Site Emergency Response Plan will be implemented. This includes details for responding to fires and spills.

In the event of a pollution incident the following actions will be taken

- Ensure Personal Safety
- Assess the necessity for evacuation. If evacuation is required, then evacuation will be undertaken in accordance with Silverton Wind Farm Emergency Response Plan
- Undertake emergency response other than evacuation.
- If safe and possible to do so, undertake immediate measures to prevent further impacts from the pollution incident.

10.3 ENSURE PERSONNEL SAFETY

If a pollution incident occurs the priority is to ensure personnel safety, visually assess the situation and if there is significant risk to human health, undertake proceedings to evacuate the site.

If evacuation is not required, the area shall be isolated and segregated to prevent personnel coming in contact with the incident.

11 ACTIONS FOLLOWING A POLLUTION INCIDENT

11.1 CLEAN UP AND RECOVERY

Following a pollution incident key personnel will develop a clean-up and recovery plan. It may be possible to undertake this, using resources on site or depending on the situation may require the engagement of emergency services or professional clean-up crews with breathing apparatus and sophisticated recovery plant.

All pollution response materials (such as used spill equipment) will be collected and stored in bunded areas and disposed of in accordance with legislation.



12 TRAINING

The following training will be undertaken to ensure that the PIRMP is well understood and that all staff are familiar with the requirements of the plan and the key steps to manage a pollution incident:

- The requirements of the PIRMP will be included as part of the Site Induction process for all staff working on the Project.
- All site personnel will be tool boxed on the requirements of the PIRMP.

<i>Date of Testing</i>	<i>Person who carried out test</i>	<i>Type of testing</i>
1 June 2021	Alana Philp – with onsite team	Minor chemical spill
3 December 2021	Alana Philp – with onsite team	Desktop drill
7 December 2022	Alana Philp – with onsite team	Bush fire - evacuation
18 December 2023	Alana Philp – with onsite team	Desktop drill – with questionnaire

13 ACCESS TO THE PIRMP

The PIRMP will be:

- Kept at the premises to which EPL 20882 relates for the duration of the Project
- Made available to any EPA authorised officer on request
- Made publicly available in a prominent position on a publicly accessible website within 14 days after it is prepared and ensure a physical copy to any person who requests a copy in writing free of charge, in the event that a website is unavailable

14 TESTING AND REVIEW PIRMP

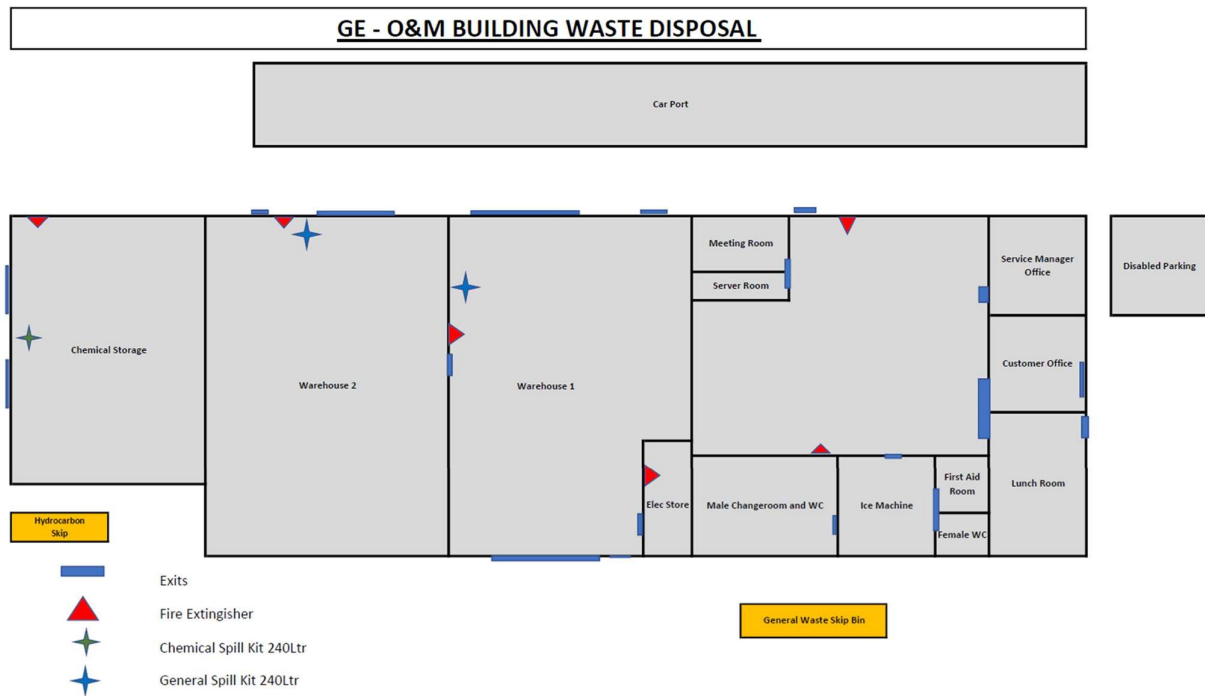
This PIRMP will be tested in accordance with the regulations whereby:

- The PIRMP will routinely tested at least once every 12 months
- The PIRMP will be reviewed within one (1) month of any pollution incident occurring and updated based on lessons learnt from the recent incident
- The PIRMP testing is to be carried out in such a manner that the information included in the PIRMP is accurate, up to date, and can be implemented in a workable and effective manner
- A Statement of Compliance of the PIRMP will be provided to the EPA as part of the EPL 20882 Annual Return



15 ATTACHMENTS

ATTACHMENT A STORAGE LOCATION OF POLLUTANTS



ATTACHMENT B MAP OF WORKSITE

SILVERTON WINDFARM



catcon
civil & allied technical construction

LEGEND

-  PROPOSED TURNING LOCATION
 PROPOSED WIND FARM ROAD
 SM CONTOUR
 PROPOSED SITE INFRASTRUCTURE
 EXISTING FORMED ROADS
 SITE BOUNDARY
 CADASTRAL BOUNDARIES
 TRANSMISSION LINE
 PROJECT APPROVED SITE INFRASTRUCTURE

NEW CONSTRAINTS
PROVIDED BY AIAA 32-321

-  STW_3A_EUROPEAN_EX_INFRASTRUCTURE
 STW_3A_INDIGENOUS_STONE_ARTIFACTS
 STW_3D_E_INDIGENOUS_STONE_ARTIFACT
 STW_3D_E_MINE_SITE
 STW_3A_LINE_VEGETATION
 PROTECTED HERITAGE ITEMS
 SIGNIFICANT HERITAGE ITEMS

PROVIDED BY AOL 87.82.11

-  STW_UNION_VEG_DISTURBANCE
 STW_BIODIVERSITY_CONSTRAINTS
 STW_SPINIFEX/PORCUPINE GRASS AREAS
 STW_RECEIVERS (NOSED)
 STW_ROCK_STAGE_23
 STW_SG_ROCK_OUTCROPS
 POTENTIAL DRAGON HABITAT
 BARRIER RANGE DRAGON HOTSPOTS
 NEW ADDITIONAL HERITAGE SITES

- CABLE LAYOUT**
- PROPOSED UNDERGROUND CABLE LAYOUT
 - PROPOSED OVERHEAD CABLE LAYOUT
 - PROPOSED POWER POLE

MET-MAST COORDINATES

- | GROUP A:
TEMPORARY MASTS FOR SITE
CALIBRATION | | |
|---|-----------|------------|
| TMA-016 | E. 522498 | N. 6478109 |
| TMA-P052 | E. 530753 | N. 6489205 |
| TMA-A075 | E. 527670 | N. 6482395 |

MET-MAST COORDINATES

- GROUP B:
FOR POWER CURVE TESTING
- | | | |
|---------|-------------|------------|
| RM-A016 | E: 522772.6 | N: 6477935 |
| RM-P052 | E: 531030.5 | N: 6489036 |
| RM-A075 | E: 525000 | N: 6482405 |

MET-MAST COORDINATES

- GROUP C:
PERMANENT MASTS
- | | | |
|-----|---------------|----------------|
| MW1 | E. 528825.586 | N. 6489040.771 |
| MW2 | E. 520504.615 | N. 6482354.894 |
| MW3 | E. 524804.257 | N. 6479164.316 |

TURBINE COORDINATES

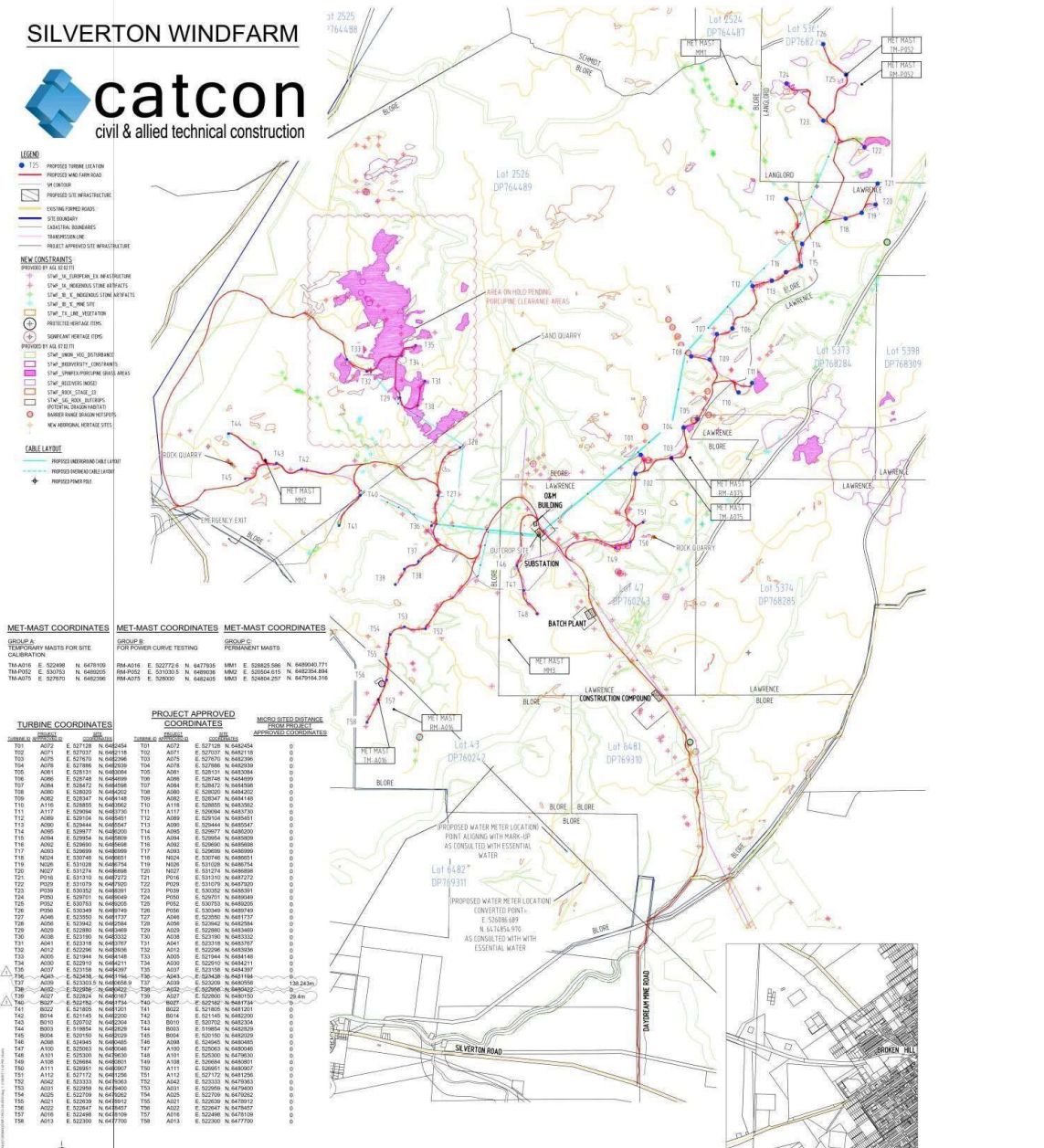
- | | | | |
|-----|------|----------|--------|
| T01 | A012 | 6.537728 | N.6481 |
| T02 | A013 | 6.537728 | N.6481 |
| T03 | A015 | 6.527870 | N.6481 |
| T04 | A016 | 6.527870 | N.6481 |
| T05 | A001 | 6.528123 | N.6481 |
| T06 | A002 | 6.528123 | N.6481 |
| T07 | A004 | 6.528472 | N.6481 |
| T08 | A005 | 6.528472 | N.6481 |
| T09 | A062 | 6.532843 | N.6481 |
| T10 | A063 | 6.532843 | N.6481 |
| T11 | A117 | 6.529444 | N.6481 |
| T12 | A118 | 6.529444 | N.6481 |
| T13 | A090 | 6.529444 | N.6481 |
| T14 | A095 | 6.529397 | N.6481 |
| T15 | A096 | 6.529397 | N.6481 |
| T16 | A062 | 6.529397 | N.6481 |
| T17 | A063 | 6.529397 | N.6481 |
| T18 | N024 | 6.531074 | N.6481 |
| T19 | N025 | 6.531074 | N.6481 |
| T20 | N127 | 6.531274 | N.6481 |
| T21 | N128 | 6.531274 | N.6481 |
| T22 | P019 | 6.531670 | N.6481 |
| T23 | P020 | 6.531670 | N.6481 |
| T24 | P021 | 6.531670 | N.6481 |
| T25 | P022 | 6.531670 | N.6481 |
| T26 | P096 | 6.530443 | N.6481 |
| T27 | P097 | 6.530443 | N.6481 |
| T28 | A056 | 6.529442 | N.6481 |
| T29 | A057 | 6.529442 | N.6481 |
| T30 | A038 | 6.529130 | N.6481 |
| T31 | A041 | 6.529310 | N.6481 |
| T32 | A042 | 6.529310 | N.6481 |
| T33 | A005 | 6.521944 | N.6481 |
| T34 | A006 | 6.521944 | N.6481 |
| T35 | A037 | 6.529316 | N.6481 |
| T36 | A038 | 6.529316 | N.6481 |
| T37 | A039 | 6.530035 | N.6481 |
| T38 | A040 | 6.530035 | N.6481 |
| T39 | A037 | 6.529244 | N.6481 |
| T40 | A038 | 6.529244 | N.6481 |
| T41 | B022 | 6.521805 | N.6481 |
| T42 | B023 | 6.521805 | N.6481 |
| T43 | B010 | 6.521670 | N.6481 |
| T44 | B011 | 6.521670 | N.6481 |
| T45 | B054 | 6.521950 | N.6481 |
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| T56 | A022 | 6.522847 | N.6481 |
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| T58 | A013 | 6.522847 | N.6481 |

COORDINATES

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| A182 | E.327. | |

MICRO SITED DISTANCE FROM PROJECT

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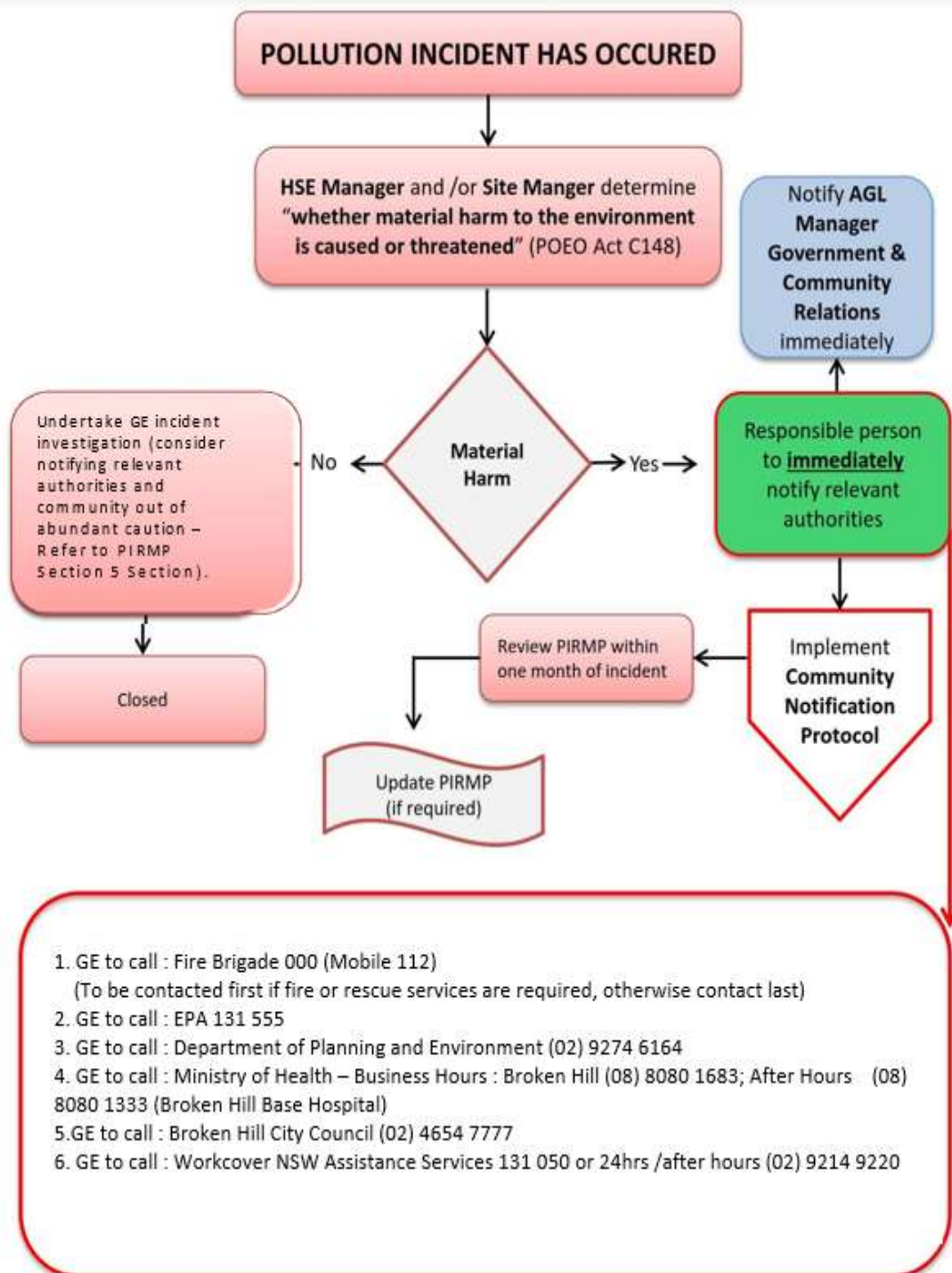
CONSTRUCTION ISSUE

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ATTACHMENT C INCIDENT NOTIFICATION PROTOCOL



"Immediately" means promptly and without delay



ATTACHMENT D POLLUTION INCIDENT RISK ASSESSMENT

Work step or facility	Hazards	Risk	Risk Score	Mitigation Strategies (Control Measures)	Residual Risk Score	Responsibility
Transportation of Fuel	Fuel Spill	Reduction in water quality	Medium	Classification, designated storage areas, Bunding, spill control procedure, Spill control equipment	Low	GE, Site Manager
Transport	Structural damage to road / culvert resulting in water pollution	Reduction in water quality	Medium	Drive to road conditions; Ensure roads fit for purpose; Preventative maintenance on culverts; Guideposts and signage;	Low	GE, Site Manager
Site Rehabilitation	Inadequate Stabilisation/ Vegetation Coverage	Erosion and Sedimentation	Medium	Ongoing monitoring and rectification work to review the rehabilitation requirements Silverton Wind Farm Vegetation Management Plan Compliance Operational Biodiversity Adaptive Management Plan (BIOSIS)	Low	GE, Site Manager
Site Rehabilitation	Weeds	Weed Infestations	Medium	Ongoing monitoring and rectification work by BOP Contractor to fulfil rehabilitation requirements Silverton Wind Farm Vegetation Management Plan Compliance Operational Biodiversity Adaptive Management Plan (BIOSIS)	Low	GE, Site Manager
Turbine Coolant System (320L per turbine)	Loss of Chemical from coolers	Soil or water pollution	Medium	Use of Biodegradable Coolant (If possible) Regular Inspections and Maintenance program implemented	Low	Site Operations GE, Site Manager
Turbine Oil and Grease Systems	Leak or Spill of oil or grease	Contaminated Soil or Water	Low	Low Volumes of Oil, Inspections to detect Leakage, Spill Recovery Procedure Maintenance of Plant and servicing requirements undertaken	Low	GE, Site Manager
Material Storage	Fuel, Oil, And Further Chemicals	Soil, Ground Contamination	Medium	Classification, designated storage areas with installed Bunding for applicable items Access to Spill Control Equipment	Low	GE, Site Manager
Waste Management	Oil, chemicals, rags, plastics, steel, wood, other	Soil Contamination, Amenity, Visual	Medium	Classification, Designated waste areas Labelling Appropriate/Legal Disposal Recycling, Waste Disposal Contractor Approved (GE Requirements)	Low	GE, Site Manager



				Appropriate/legal disposal		
Various	Bushfire (Additional Hot Works Activity)	Impact from bushfire	Medium	Bushfire Management Plan, Controls detailed in the BMP Fire-Fighting equipment on-hand (For Activity of Hot Works)	Low-Med	GE, Site Manager
Wind Farm Infrastructure	Equipment Fire (Associated Wind Farm Infrastructure)	Ignition of Bushfire to Life and Property Harm	Medium	Bushfire Management Plan, Control ignition source, Sensors and automated shutdown systems on turbines, Fire-fighting equipment on-hand (especially for hot works)	Low	GE, Site Manager
Vehicle Transport/ Movements	Airborne dust	Roads Poorly Maintained	Medium	Maintain road surfaces to limit dust generation when vehicles use road. Deploy water cart as required. Reduce vehicle speeds. Consider application of surfactants.	Low	GE, Site Manager
Access Track Maintenance	Erosion of Tracks and Landowners Property	Sediment Transfer	Medium	Higher risk on steeper slopes and erodible soils. Ensure drains are lined to reduce flow velocity and prevent scouring of drain. Stabilise batters. Rehabilitation Programme. Flocculate sediment basins	Low	GE, Site Manager
Operation of Substation						
Large Transformer 33kV/132kV	Large loss of Oil	Soil or Water pollution	Medium	Design includes location within substantive concrete bund and inground oil/water separator. Regular inspection and maintenance	Low	GE, Site Manager
Oil Water Separator	Ineffective Operation	Oil discharge to soil and waters	Medium	Regular inspection and maintenance, Keep Area Clean	Low	GE, Site Manager
Transformer Oil Cleaning	Leakage / Loss of Oil Volume	Contamination soil or water	Medium	Low volumes of oil stored, Inspections to detect leakage, Maintenance of Plant	Low	GE, Site Manager
Hazardous Substance Storage	Storage of Waste Oils and Chemicals	Spillage to soil and waters or unbunded areas	Medium	Storage of relatively small amounts of hazardous substances, oil and chemicals. Ensure Storage areas are compliant with substances specifications	Low	GE, Site Manager
Sewage System On-Site	Leakage to Waters, Soil	Failure of Pipework	Low	Septic system approved by Council for operations. Checks on operation of systems Ensure that Waste Vendors are approved as per Waste Vendor approval process	Low	GE, Site Manager, EHS Resource



Small Plant Equipment, Generator	Refuelling, Servicing, Wastes	Spillage of fuel or oil	Low	Fuel and oil handling procedures, Spill response equipment on hand Auxiliary/backup generator is banded.	Low	GE, Site Manager
Waste	Inappropriate Disposal	Pollution, Fines, Penalties	Medium	Minimal waste during operations. Clearly defined waste handling processes, Segregation of wastes	Low	GE, Site Manager

TABLE 1 – PROBABILITY CONSIDERATIONS

Likelihood (L)		
A	Almost certain	Happens often
B	Likely	Could easily happen
C	Possible	Could happen and has occurred elsewhere
D	Unlikely	Hasn't happened yet but could
E	Rare	Conceivable, but only in extreme circumstances

TABLE 2 – CONSEQUENCE RATINGS

Consequence (C)		
1	Extreme Environmental Harm	Widespread catastrophic impact on environmental values of an area
2	Major Environmental Harm	Widespread substantial impact on environmental values of an area
3	Serious Environmental Harm	Widespread and considerable impact on Environmental values of an area
4	Material Environmental Harm	Localised and considerable impact on environmental values of an area
5	Minimal Environmental Harm	Minor impact on environmental values of an area



TABLE 3 – RISK RATING TABLE

	Probability				
	A	B	C	D	E
1	1 (H)	2 (H)	4 (H)	7 (M)	11 (M)
2	3 (H)	5 (H)	8 (M)	12 (M)	16 (L)
3	6 (H)	9 (M)	13 (M)	17 (L)	20 (L)
4	10 (M)	14 (M)	18 (L)	21 (L)	23 (L)
5	15 (M)	19 (L)	22 (L)	24 (L)	25 (L)

	Intolerable
	As low as reasonably practical
	Tolerable

ATTACHMENT E LEGISLATIVE REQUIREMENTS OF THE PIRMP

The key legislative requirements for details of the PIRMP are listed below, including where these are met in this document:

POEO Act 1997

Reference	Requirement	Where addressed
Part 5.7A - Duty to prepare and implement pollution incident response management plans		
153A Duty of licence holder to prepare pollution incident response management plan	The holder of an environment protection licence must prepare a pollution incident response management plan that complies with this Part in relation to the activity to which the licence relates.	This Plan
153B EPA may direct other persons to prepare pollution incident response management plan	EPA may direct other persons to prepare pollution incident response management plan (1) The EPA may, in accordance with the regulations, require the occupier of premises at which industry is carried out to prepare a pollution incident response management plan that complies with this Part in relation to activities at the premises. (2) A person must not fail to comply with such a requirement.	Not applicable
153C Information to be included in plan	A pollution incident response management plan must be in the form required by the regulations and must include the following: (a) The procedures to be followed by the holder of the relevant environment protection licence, or the occupier of the relevant premises, in notifying a pollution incident to: (i) The owners or occupiers of premises in the vicinity of the premises to which the environment protection licence or the direction under section 153B relates, and (ii) The local authority for the area in which the premises to which the environment protection licence or the direction under section 153B relates are located and any area affected, or potentially affected, by the pollution, and (iii) Any persons or authorities required to be notified by Part 5.7,	This Plan
	b) A detailed description of the action to be taken, immediately after a pollution incident, by the holder of the relevant environment protection licence, or the occupier of the relevant premises, to reduce or control any pollution,	Section 10,11
	(c) The procedures to be followed for co-ordinating, with the authorities or persons that have been notified, any action taken in combating the pollution caused by the incident and, in particular, the persons through whom all communications are to be made,	Section 6
	(d) Any other matter required by the regulations.	This Plan
153D Keeping of plan	A person who is required to prepare a pollution incident response management plan under this Part must ensure that it is kept at the premises to which the relevant environment protection licence relates, or where the relevant activity takes place, and is made available in accordance with the regulations.	Section 13
153E Testing of plan	A person who is required to prepare a pollution incident response management plan under this Part must ensure that it is tested in accordance with the regulations.	Section 15
153F	If a pollution incident occurs in the course of an activity so that material harm to the environment (within the meaning of section 147) is caused or threatened, the person	Section 10



Implementation of plan	carrying on the activity must immediately implement any pollution incident response management plan in relation to the activity required by this Part.	
Part 5.7 Duty to notify pollution incidents		
147 Meaning of material harm to the environment	(1) For the purposes of this Part: (a) harm to the environment is material if: (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or (ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and (b) loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment. (2) For the purposes of this Part, it does not matter that harm to the environment is caused only in the premises where the pollution incident occurs.	Section 3
148 Pollution incidents causing or threatening material harm to be notified	(1) Kinds of incidents to be notified This Part applies where a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened. (2) Duty of person carrying on activity to notify A person carrying on the activity must, immediately after the person becomes aware of the incident, notify each relevant authority of the incident and all relevant information about it. (3) Duty of employee engaged in carrying on activity to notify A person engaged as an employee in carrying on an activity must, immediately after the person becomes aware of the incident, notify the employer of the incident and all relevant information about it. If the employer cannot be contacted, the person is required to notify each relevant authority. (3A) Duty of employer to notify Without limiting subsection (2), an employer who is notified of an incident under subsection (3) or who otherwise becomes aware of a pollution incident which is related to an activity of the employer, must, immediately after being notified or otherwise becoming aware of the incident, notify each relevant authority of the incident and all relevant information about it. (4) Duty of occupier of premises to notify The occupier of the premises on which the incident occurs must, immediately after the occupier becomes aware of the incident, notify each relevant authority of the incident and all relevant information about it. (5) Duty on employer and occupier to ensure notification An employer or an occupier of premises must take all reasonable steps to ensure that, if a pollution incident occurs in carrying on the activity of the employer or occurs on the premises, as the case may be, the persons engaged by the employer or occupier will, immediately, notify the employer or occupier of the incident and all relevant information about it. (6) Extension of duty to agents and principals This section extends to a person engaged in carrying on an activity as an agent for another. In that case, a reference in this section to an employee extends to such an agent and a reference to an employer extends to the principal. (7) (Repealed) (8) Meaning of “relevant authority” In this section— relevant authority means any of the following— (a) the appropriate regulatory authority, (b) if the EPA is not the appropriate regulatory authority—the EPA, (c) if the EPA is the appropriate regulatory authority—the local authority for the area in which the pollution incident occurs, (d) the Ministry of Health, (e) SafeWork NSW as referred to in clause 1 of Schedule 2 to the Work Health and Safety Act 2011, (f) Fire and Rescue NSW.	Section 5.1



POEO (General) Regulations 2009

Reference	Requirement	Where addressed
98C Additional matters to be included in plan	(a) a description of the hazards to human health or the environment associated with the activity to which the license relates (the relevant activity),	Section 8
	(b) the likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood,	Section 8 Attachment D
	(c) details of the pre-emptive action to be taken to minimise or prevent any risk of harm to human health or the environment arising out of the relevant activity,	Section 7.2
	(d) an inventory of potential pollutants on the premises or used in carrying out the relevant activity,	Section 8
	(e) the maximum quantity of any pollutant that is likely to be stored or held at particular locations (including underground tanks) at or on the premises to which the license relates,	Section 8
	(f) a description of the safety equipment or other devices that are used to minimise the risks to human health or the environment and to contain or control a pollution incident,	Section 9, 9.1
	(g) the names, positions and 24-hour contact details of those key individuals who: (i) are responsible for activating the plan, and (ii) are authorised to notify relevant authorities under section 148 of the Act, and (iii) are responsible for managing the response to a pollution incident,	Attachment C
	(h) the contact details of each relevant authority referred to in section 148 of the Act,	Attachment C
	(i) details of the mechanisms for providing early warnings and regular updates to the owners and occupiers of premises in the vicinity of the premises to which the license relates or where the scheduled activity is carried on,	Attachment C
	(j) the arrangements for minimising the risk of harm to any persons who are on the premises or who are present where the scheduled activity is being carried on,	Section 10.1
	(k) a detailed map (or set of maps) showing the location of the premises to which the license relates, the surrounding area that is likely to be affected by a pollution incident, the location of potential pollutants on the premises and the location of any stormwater drains on the premises,	Attachment B
	(l) a detailed description of how any identified risk of harm to human health will be reduced, including (as a minimum) by means of early warnings, updates and the action to be taken during or immediately after a pollution incident to reduce that risk,	Section 10.1
	(m) the nature and objectives of any staff training program in relation to the plan	Section 12
	(n) the dates on which the plan has been tested and the name of the person who carried out the test,	Section 12
	(o) the dates on which the plan is updated,	Document Revision History Page
98D Availability of plan	(1) A plan is to be made readily available— (a) to an authorised officer on request, and (b) at the premises to which the relevant licence relates, or where the relevant activity takes place, to any person who is responsible for implementing the plan. (2) A plan is also to be made publicly available in the following manner within 14 days after it is prepared— (a) in a prominent position on a publicly accessible website of the person who is required to prepare the plan, (b) if the person does not have such a website—by providing a copy of the plan, without charge, to any person who makes a written request for a copy.	Section 13



98E Testing of plan	(1) The testing of a plan is to be carried out in such a manner as to ensure that the information included in the plan is accurate and up to date and the plan is capable of being implemented in a workable and effective manner. (2) Any such test is to be carried out— (a) routinely at least once every 12 months, and (b) within 1 month of any pollution incident occurring in the course of an activity to which the licence relates so as to assess, in the light of that incident, whether the information included in the plan is accurate and up to date and the plan is still capable of being implemented in a workable and effective manner.	Section 14
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