



Licence number	L8295/2008/4
Licence holder	Ixom Operations Pty Ltd
ACN	600546512
Registered business address	Level 8, 1 Nicholson Street, East Melbourne Victoria 3002
DWER file number	DEC9875/1 – FA260255
Duration	24/12/2023 to 23/12/2027
Date of issue	21/12/2023
Premises details	Zephyr Hypochlorite Plant Area 2, 52-64 Sheffield Road Welshpool WA 6106 Legal description - Part of Lot 2 on Diagram 72910 Certificate of Title Volume 2171 Folio 480 As defined by the coordinates in Schedule 2.

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 31: Chemical manufacturing: premises (other than premises within category 32) on which chemical products are manufactured by a chemical process.	10,000 tonnes per annum

This licence is granted to the licence holder, subject to the attached conditions, on 21 December 2023, by:

Neville Welsh
SENIOR INDUSTRY REGULATION OFFICER
REGULATORY SERVICES
Officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of changes
24/12/2008	L8295/2008/1	First licence issued for the Premises
15/12/2011	L8295/2008/2	Licence re-issue
12/12/2014	L8295/2008/3	Licence re-issue and conversion to REFIRE format
26/03/2015	L8295/2008/3	Licence transferred to Chemicals Australia Operations Pty Ltd
29/04/2016	L8295/2008/3	Notice of Amendment to extend expiry date from 23 December 2019 to 23 December 2023
13/05/2022	L8295/2008/3	Notice of Amendment changing the reporting requirements that an Environmental Report is not required plus, the Annual Audit Compliance Report is required by 28/01/2023 and annually afterwards.
21/12/2023	L8295/2008/4	Licence renewal including the latest Notice of Amendment and Licence Amendments.

Interpretation

In this licence:

- a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- c) where tables are used in a condition, each row in a table constitutes a separate condition;
- d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
 - i) if dated, refers to that particular version; and
 - ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and,
- f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

Emissions and discharges

1. The licence holder must ensure that the emissions specified in Table 1, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 1: Authorised discharge points

Emission	Discharge point	Discharge point location
Chlorine	Powell Sentry Scrubber stack, height of 12.5m plus the vent of the scrubber during emergency discharges.	Emission point A1 as shown in Schedule 1 - Premises and emission point map.

2. The licence holder must target point source emissions to air at or below the trigger value specified in Table 2, when monitored in accordance with condition 7.

Table 2: Point source emission to air trigger value

Emission point reference	Parameter	Trigger value ¹	Frequency
A1 as shown in Schedule 1 - Premises and emission point map	Chlorine	3ppm	Continuous

Note 1: measured at stack conditions

Operations

3. The licence holder must, in the event of a parameter in condition 2 exceeding the corresponding trigger value(s) specified in that condition undertake the management action(s) as specified in Table 3.

Table 3: Management actions required in the event of trigger value exceedance.

Monitoring location	Parameter	Event	Management action
A1 as shown in Schedule 1 - Premises and emission point map	Chlorine	The continuous chlorine sensor on emission point A1 registers chlorine levels above the trigger value specified in condition 2.	The licence holder must immediately isolate the chlorine gas feed to the reactor vessel. Investigate the exceedance and resolve the issue as soon as it is safe to do so.

4. Following the cessation of emissions/operation under Condition 3, the Licence Holder must not restart operation of the process until:
 - (a) the problem that caused the exceedance event has been rectified; or
 - (b) the Licence Holder records the actions taken to maintain compliance with the Licence until the problem causing the exceedance event has been rectified.

Monitoring

5. The licence holder must ensure that all monitoring equipment used to comply with condition 7 is operated and calibrated in accordance with the manufacturer's specifications.
6. The Licence Holder must, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.
7. The licence holder must monitor emissions:
 - (a) from each discharge point;
 - (b) at the corresponding monitoring location;
 - (c) for the corresponding parameter;
 - (d) in the corresponding unit;
 - (e) at the corresponding frequency;
 - (f) using the corresponding method,
 as set out in Table 4.

Table 4: Emissions monitoring

Discharge point	Monitoring location	Parameter	Unit ¹	Frequency	Method
A1 – Powell Sentry Scrubber stack as shown in Schedule 1 - Premises and emission point map	Discharge point A1.	Chlorine	ppm	Continuous	Electrochemical Sensor (Drager Polytron 7000)

Note 1: measured at stack conditions.

8. The licence holder must immediately isolate the chlorine gas feed to the reactor vessel upon any failure of the monitoring equipment as required by condition 7.

Records and reporting

- 9.** The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

 - (a) the name and contact details of the complainant, (if provided);
 - (b) the time and date of the complaint;
 - (c) the complete details of the complaint and any other concerns or other issues raised; and
 - (d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.
- 10.** The licence holder must:

 - (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
 - (b) prepare and submit to the CEO by no later than 28 days after the end of that annual period an Annual Audit Compliance Report in the approved form.
- 11.** The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:

 - (a) the calculation of fees payable in respect of this licence;
 - (b) monitoring programmes undertaken in accordance with conditions 5 to 8 of this licence;
 - (c) operations undertaken in accordance with conditions 3 and 4 of this licence; and,
 - (d) complaints received under condition 9 of this licence.
- 12.** The books specified under condition 11 must:

 - (a) be legible;
 - (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
 - (c) be retained by the licence holder for the duration of the licence; and
 - (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this licence, the terms in Table 5 have the meanings defined.

Table 5: Definitions

Term	Definition
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates are available on the Department's website).
Approved form	Approved form means the Annual Audit Compliance Report (AACR) form template approved by the CEO for use and available via Department's website.
annual period	a 12 month period commencing from 1 January until 31 December of each year.
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
Schedule 1	means Schedule 1 of this Licence unless otherwise stated
Schedule 2	means Schedule 2 of this Licence unless otherwise stated

END OF CONDITIONS

L8295/2008/4 - Licence granted on 21 December 2023

IR-T06 Licence template (v8.0) (September 2022)

Schedule 1: Maps

Premises and emission point map

The boundary of the prescribed premises and emission point A1 is shown in the map below (Figure 1).



Figure 1: Map of the boundary of the prescribed premises and emission point A1

Schedule 2: Premises boundary coordinates

The corners of the premises boundary are the coordinates listed in Table 6.

Table 6: Premises boundary coordinates (GDA2020 Zone 50)

Ref Pt	Easting	Northing
1.	402732.08679	6460265.42072
2.	402735.84164	6460230.37287
3.	402730.90502	6460233.83611
4.	402745.50894	6460249.06906
5.	402745.38786	6460251.80503
6.	402662.57064	6460194.62541
7.	402682.98470	6460174.53717