OFFICIAL



Development licence

Environment Protection Act 2017

Licence number	DL000300041
Issue date	6 December 2023
Last amended	
Expiry date	1 December 2029
Licence holder	PROSPECT HILL INTERNATIONAL PTY. LTD.
ACN	617544244
Activity site(s)	164-200 McManus Road, Lara, Victoria, 3212, Australia
Prescribed permission activities	A08 (Waste to energy)

Issued under section 69(1)(a) of the Environment Protection Act 2017 (the Act).

Con Lolis

Director Permissioning and Development Delegate of Environment Protection Authority Victoria (EPA)

epa.vic.gov.au

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Context

Environment Protection Authority Victoria (EPA) is Victoria's environmental regulator acting in accordance with the *Environment Protection Act 2017* (the Act). Our regulatory role is to work with community, industry and business to prevent and reduce the harmful effects of pollution and waste on Victoria's environment and people.

Why we issue development licences

A range of development activity types are prescribed in the Environment Protection Regulations 2021 (the Regulations) because they give rise to risks of harm to human health or the environment. We issue development licences so applicants can lawfully undertake prescribed development activities. Section 44 of the Act provides that a person must not engage in a prescribed development activity except as authorised by a development licence in respect of that activity.

When we issue development licences

EPA can issue a development licence under section 69(1) of the Act. When issuing a development licence, EPA takes into account a number of factors, including the measures an applicant has taken or proposes to take in order to comply with the Act when engaging in the prescribed permission activity.

EPA can amend, suspend or revoke a licence for a range of reasons. This can include in response to changes in activities, risks or licence holder performance. All development licence details are publicly accessible via the EPA Public Register.

Key information and obligations

Interpretation

For the purposes of this development licence "You" means the "licence holder" identified on the first page. Unless a contrary intention appears, words or terms used in the conditions of your licence have the same meaning as in the Act, and in any regulations made pursuant to the Act.

Compliance

Your licence is subject to conditions. These conditions confer legal obligations on you as the licence holder. Some of these are general in nature, while others require you to do (or not to do) specific things. The requirements of these conditions do not detract from each other in any way, nor do they affect any other duties or obligations with which you are required to comply by law. You must fulfil all duties and perform all obligations set out in this licence or otherwise required by law.

Strict penalties apply for non-compliance with any part of your development licence.

You must comply with the Act and regulations administered by EPA. This includes, but is not limited to, compliance with the general environmental duty (GED).



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Duties under the Act

Under the Act, you have legal obligations in relation to your prescribed and non-prescribed activities. These legal obligations exist to minimise risks of harm to human health and the environment from pollution and waste.

You may be committing an offence and be liable to a penalty under the Act if your actions or omissions constitute a breach of these legal obligations.

General environmental duty

The Act places the onus on you to understand the risks associated with your operation or activity and requires you to minimise the risk of harm. This is called the general environmental duty (GED).

Sections 6 and 25 of the Act provide the legal basis for the GED. These sections state that a person engaging in an activity which may give rise to risks of harm to human health or the environment from pollution or waste must eliminate or minimise those risks, as far as reasonably practicable.

Duty to notify EPA of notifiable incidents

A notifiable incident is a pollution incident that causes or threatens to cause material harm to human health or the environment or is a prescribed notifiable incident. Under section 32 of the Act, you have an obligation to notify EPA of a notifiable incident as soon as practicable after you become aware of the incident.

Duty to take action to respond to harm caused by pollution incident

Under section 31 of the Act, if a pollution incident has occurred as a result of an activity (whether by act or omission) and the pollution incident causes or is likely to cause harm to human health or the environment, a person who is engaging in that activity must, so far as reasonably practicable, restore the affected area to the state it was in before the pollution incident occurred.

Duty to notify of contaminated land

Under section 40(1) of the Act, a person in management or control of land must notify EPA if the land has been contaminated by notifiable contamination as soon as practicable after the person becomes aware of the notifiable contamination.

Notifiable contamination means contamination which is prescribed in the Regulations, or contamination for which the cost of action to remediate the land is likely to exceed \$50,000, or any other prescribed amount.

Duties relating to industrial waste, priority wastes and reportable priority wastes

Under parts 6.4 and 6.5 of the Act, a person has obligations in relation to the generation, receiving, recording, managing, transporting, and disposal of industrial, priority wastes and reportable priority wastes. These duties include:

• Duties of persons depositing industrial waste.



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- Duties of persons receiving industrial waste.
- Duty of persons involved in transporting industrial waste.
- Duties of persons managing priority waste.
- Duty to investigate alternatives to waste disposal.
- Duty to notify of transaction in reportable priority waste.
- Duty of persons transporting reportable priority waste.

For further information on waste classifications see schedule 5 of the Regulations.

Further information and resources

To aid compliance with the Act and the Regulations, Environment Reference Standards (ERS), Compliance Codes, Position Statements and Guidelines have been developed to address a range of environmental objectives, permitted and non-permitted activities and risks.

You should understand how the Victorian environment protection framework applies to you and your activity, operation or business by making yourself familiar with the Act, Regulations, Compliance Codes and other relevant guidance material.

To assist you with understanding your obligations refer to <u>www.epa.vic.gov.au</u>.

Amendment

You can apply at any time to EPA for an amendment to your licence under section 57 of the Act. EPA may also decide to amend a licence under its own initiative according to section 58 of the Act.

Transfer

A person may apply to EPA for the transfer of this licence to a new licence holder pursuant to section 56 of the Act.

Duration of licence and renewal

This development licence is subject to the expiry date identified on the first page of this licence. It will remain in force until that time unless it is first surrendered by the licence holder (with consent from EPA), or it is suspended or revoked by EPA. EPA may decide to extend the term of the licence under section 72 of the Act. Note that an application for a development licence renewal must be submitted to EPA before the licence expiry date



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Development licence structure

Your development licence has multiple parts:

- Conditions
- Appendix 1 locality plan
- Appendix 2 activity plan
- Appendix 3 contour plan
- Appendix 4 waste acceptance table
- Appendix 5 air discharge table
- Appendix 6 water discharge table
- Appendix 7 landfill cell table



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Conditions

General conditions	
DL_G1	A copy of this licence must be kept at the site and be easily accessible to persons who are engaging in an activity conducted at the site. Information regarding the requirements of the licence and the Act duties must be included in site induction and training information.
DL_G02	The development activities must be constructed in accordance with the approved plans and documents:
	 (a) 'Prospect Hill EfW Project – Works Approval Application, Prospect Hill International Pty Ltd' including Appendices A–N, document number 1, prepared by Jacobs Group (Australia) Pty Limited, dated 10 February 2021 (b) 'Memorandum Response to s50(3) Notice and s236 Conference of Interested Persons Report' including Appendices A-C, document number IS305100, prepared by Jacobs Group (Australia) Pty Limited, dated 10 September 2021 (c) 'Prospect Hill Energy from Waste Facility – Noise Impact Assessment', Document no: IS305100_TP_008, prepare by Jacobs Group (Australia) Pty Limited, dated 24 August 2022 (d) 'Memorandum: EPA Victoria – Development Licence Application: Request for further information pursuant to s 50(3) of the Environment Protect Act 2017', document number IS305100_01.06.22, prepared by Jacobs Group (Australia) Pty Limited, dated 25 October 2022
	In the event of any inconsistency between the approved documents and the conditions of this permission, the conditions of this permission shall prevail.
	Subject to the following conditions, this development licence allows you to develop a moving grate incineration waste to energy facility capable of treating 400,000 tonnes per year of residual municipal solid waste (MSW) (80%) and commercial and industrial (C&I) waste (20%) and consisting of the following key components:
	(1) two bi-directional calibrated road vehicle weighbridges;
	(2) a fully enclosed negatively pressured waste tipping hall and storage bunker, which includes:
	(a) fire detection and protection systems;
DL_G03	(b) incoming waste audit, waste load-out, and rejected waste quarantine, and other related waste sampling facilities; and
	(c) backup odour control system;
	(3) two incineration process lines, each consisting of a moving grate, furnace and heat recovery boiler, steam turbine and generator, wet bottom ash extraction system, fly-ash solids recovery and handling system, and advanced control system;
	(4) a flue gas cleaning system for each incineration process line which:

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(a)	meets Best Available Techniques (BAT) (defined by Article 3(10) of Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (IED 2010/75/EU));
(b)	complies with international BAT review for waste incineration facilities, and follows the guiding BAT principles of the European Commission, Commission Implementing Decision (EU) 2019/2010 of 12 November 2019, establishing the BAT conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for waste incineration (BATC 2019) and the European Commission Integrated Pollution Prevention and Control Reference Document on Best Available Techniques for Waste Incineration (BREF 2019);
(c)	at a minimum includes an advanced selective non-catalytic reduction system, flue gas recirculation system, a dry or semi-dry absorbent reactor system, an activated carbon injection system, and a filter baghouse;
(d)	the filter baghouse design is to be sufficient for retrofit of catalytic filter bags for removal of additional dioxins and furans if the activated carbon injection is insufficient to reduce relevant indicators so far as reasonably practicable;
(e)	allows for ease of upgrade to achieve more stringent limits, if required in the future, and makes provision for incorporation of future emissions controls as may be recommended by the BREF or BATC, as amended from time to time, which do not result in significant efficiency impacts of the initial design;
(f)	meets the requirements and procedures (including applicable emission limits) of the EU IED 2010/75/EU with any reduced emission levels necessary to reflect the outcomes of the future reports provided under condition DL_R04 and which is capable of:
	 (i) operating within the BAT-AEL ranges for new plants contained in BAT 25, BAT 27, BAT 28, BAT 29, BAT 30 and BAT 31 of BATC 2019 under transient, part load, and start-up and shutdown operating conditions; and
	 (ii) does not exceed the BAT-AEL ranges for new plant contained in BAT 25, BAT 27, BAT 28, BAT 29, BAT 30 and BAT 31 of BATC 2019 under all other operating conditions and reduces emissions within those ranges so far as reasonably practicable;
(5) the fur built a waste fashioi transie 2010/7	nace for each incineration process line is designed to be equipped, nd operated in such a way that gas resulting from the incineration of is raised, after the last injection of combustion air, in a controlled n and even under the most unfavourable conditions including all ent, part load, and start-up operating conditions as defined in the IED 5/EU, to a temperature of at least 850°C for at least two seconds;
(6) a Cont	inuous Operating Monitoring System capable of monitoring all key



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process parameters for emissions to air as specified in BATC 3 of the BATC 2019;

- (7) a Continuous and Non-continuous Emission Monitoring Systems to be installed on each flue in the multiflued stack capable of measuring all substances and parameters compliant with the standards and minimum monitoring frequencies as specified in BAT 4 of BATC 2019;
 - (a) including continuous emission monitoring of: carbon monoxide, total dust, total organic carbon, total volatile organic carbon, hydrogen chloride, hydrogen fluoride, sulphur dioxide, oxides of nitrogen expressed as NO₂, ammonia, and mercury;
 - (b) including in all operating scenarios, including steady state, unsteady state, all transient, part load, and start-up and shutdown operating conditions as defined in the IED 2010/75/EU;
- a backup Continuous and Non-continuous Emission Monitoring Systems capable of measuring all substances and parameters consistent with the standards set out in condition DL_G03(7);
- (9) provision for future incorporation of a Continuous Emissions Monitoring System capable of measuring PM₂₅ and PM₁₀, if this becomes reasonably practicable;
- (10) a power plant which recovers heat or electricity generated from the process so far as reasonably practicable and is designed to achieve the BAT-Associated Energy Efficiency Levels of the BREF and BATC 2019, including an average R1 energy efficiency of 0.77 (calculated in accordance with methodologies specified in EPA Publication 1559.1 '*Guideline – Energy from waste*' dated July 2017);
- (11) a backup power generator system that is sized to operate control systems of both process lines during other than normal operating conditions;
- (12) a wet bottom ash extraction system;
- (13) provisions for future incorporation of options for a flue gas cleaning system solid residue stabilisation system;
- (14) a bottom ash treatment system and building including an enclosed:
 - (a) pre-treatment storage hall;
 - (b) processing shed with dust extraction system and bag filter; and
 - (c) maturation hall;
- (15) provision for future incorporation of options (including physical space within the activity site) for resource recovery from the waste before incineration so far as reasonably practicable.

DL_G04

This permission does not take effect until a copy of any planning permit or amendment to a planning scheme required under the Planning and Environment Act 1987 (Vic) and related planning schemes has been provided to the Authority by the applicant.



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	This permission expires:
	(a) on the issue or amendment of an operating licence or permit relating to all activities covered by this permission;
DL_G05	(b) when the Authority advises in writing that all activities covered by this permission have been satisfactorily completed and the issue or amendment of an operating licence or permit is not required; or
	(c) on the expiry date listed on the front page of this permission.
	You must:
	(a) develop and maintain a decommissioning plan that is in accordance with the current decommissioning guidelines published by the Authority;
	(b) provide the decommissioning plan to the Authority upon request;
DL_G07	(c) supply to the Authority an updated detailed decommissioning plan 60 business days prior to commencement of decommissioning, if you propose to divest a section of the licensed site, cease part or all of the licensed activity or reduce the basis upon which the licence was granted to a point where licensing is no longer required; and
	(d) decommission the licensed site in accordance with the detailed decommissioning plan, to the satisfaction of the Authority and within any reasonable timeframe which may be specified by the Authority.

Standard conditions	
DL_C01	Commissioning activities must be undertaken in accordance with the commissioning plan approved by the Authority.
DL_C02	You must immediately notify the Authority by calling 1300 EPA VIC (1300 372 842) in the event of:
	(a) a discharge, emission or deposit which gives rise to, or may give rise to, actual or potential harm to human health or the environment;
	(b) a malfunction, breakdown or failure of risk control measures at the site which could reasonably be expected to give rise to actual or potential harm to human health or the environment; or
	(c) any breach of the licence.
DL_C05	(1) You must develop a risk management and monitoring program for your activities which:
	(a) identifies the risks of harm to human health and the environment which may arise from the activities you are engaging in at your activity site;



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	(b) clearly defines your environmental performance objectives;
	(c) clearly defines your risk control performance objectives;
	 (d) describes how the environmental and risk control performance objectives are being achieved;
	(e) identifies and describes how you will continue to eliminate or minimise the risks in 1(a) (above) so far as reasonably practicable; and
	 (f) describes how the information collated in compliance with this clause, is or will be disseminated, used or otherwise considered by you or any other entity;
	(2) The risk management and monitoring program must be:
	(a) documented in writing;
	(b) signed by a duly authorised officer of the licensed entity; and
	(c) made available to the Authority on request.
DLC06	Within 30 business days of the expiry of this permission, you must provide to EPA a report detailing the results of the commissioning monitoring program.
DL_C07	Within 30 business days of the completion of the approved activities, you must provide to EPA a written report that summarises the activities undertaken and includes: a summary of compliance with each condition of this development licence.
	You must install:
	(1) For each flue in the multi-flue stack, a device capable of sampling in stack:
	(a) long-term mass concentrations of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF), for periods of up to one month for each flue; and
	(b) short-term mass concentrations of PCDD and PCDF;
	(2) For each furnace, at least one auxiliary burner that is automatically switched on when the temperature of the combustion gases after the last injection of air falls below 850°C;
DL_W08	(3) An automatic system to prevent waste feed if:
	(a) at start-up, the temperatures of at least 850°C with a residence time of at least two seconds has not been reached;
	(b) the temperature of the furnace (at least 850°C with a residence time of at least two seconds) is not maintained;
	(c) Continuous Emissions Monitoring Systems show that any emission limit value is exceeded due to disturbances or failure of the flue gas cleaning system; or
	(d) all flue gas cleaning or pollution control equipment has not been validated for plant readiness.



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DL_W09.1

You must install all exhaust stacks so that provisions for sampling are included in accordance with *A Guide to the Sampling and Analysis of Air Emissions and Air Quality* (EPA Publication 440.1, released December 2002), or as approved by the Authority.

Specific conditions

At least 60 business days before the start of any commissioning, you must provide to the Authority plans and reports that include(s):

- a Construction Verification Report prepared by a suitably qualified EPAappointed auditor (or alternative expert approved by the EPA in writing) demonstrating that the facility has been built in accordance with the development licence and all endorsed reports provided under DL_R04;
- (2) a summary report of the site Environmental Management System (EMS) prepared in accordance with ISO 14001 or Regulation (EC) NO 1221/2009 and the BREF and BATC 2019 and make available for inspection all documents and procedures which form part of the EMS, including but not limited to:
 - (a) a Waste Stream Management Plan;
 - (b) a Residual Waste Management Plan;
 - (c) a Community and Stakeholder Engagement Plan;
 - (d) a Complaints Response Plan;
 - (e) an Air Emission Management Plan;
 - (f) an Odour Management Plan;
 - (g) an Other Than Normal Operating Condition Management Plan;
 - (h) an Accident Management Plan;
 - (i) a Diffuse Dust Emission Management Plan;
 - (j) a Noise Management Plan that include(s):
 - (i) inspection, maintenance and testing programs to prevent the emission of unreasonable noise (as defined in section 3 of the Environment Protection Act 2017, as prescribed in Part 5.3, Division 3 of the Regulations);
 - (ii) a program for the implementation of contingency measures, wherever necessary;
 - (iii) procedures to investigate and respond to noise complaints, including measures to be taken to address the cause of valid complaints; and
 - (iv) an implementation of continual improvement, to ensure the risk of harm from noise to human health and the environment is minimised so far as reasonably practicable,



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across the whole life of the project.

- (3) a Site Emergency Response Plan that includes actions to be taken to protect personnel and property in the event of a major incident (large gas release, fire/explosion or toxic gas release) at the Viva Lara LPG Terminal;
- (4) a Waste Management Contingency Plan for planned and unplanned shutdowns, that considers:
 - (a) alternative waste management options;
 - (b) alternative waste odour control contingency measures and
 - (c) arrangements or systems to inform relevant stakeholders about any shutdown (e.g. the Authority, power companies, community and local councils);
- (5) a Greenhouse Gas (GHG) Emission Reduction and Management Plan (GHGERMP) that must:
 - (a) Include a GHG inventory that identifies and estimates Scope 1, Scope 2, and measurable and relevant Scope 3 GHG emissions, in carbon dioxide equivalent (tCO₂e), for the operational phases of the proposal;
 - (b) maintain updates of the above GHG inventory on a yearly basis using operational data; and
 - (c) include minimisation strategies for the lifetime of the project, with GHG reduction targets demonstrating contribution towards Victoria's legislated target of net zero emissions and the interim targets set by the Victorian Government under the *Climate Change Act 2017;*
- (6) a Climate Change Adaptation Management Plan (CCAMP) that must:
 - (a) identify hazards and assess risks of harm from climate change impacts to the proposal's operation, over the life of the project including:
 - (i) potential biophysical and environmental impacts, social and economic impacts, potential health impacts and other potential impacts from climate change related to the activity; and
 - (ii) long- and short-term impacts, direct and indirect impacts, and cumulative impacts;
- (7) a detailed Commissioning Plan detailing all relevant monitoring methodologies for validation or proof-of-performance of the development activities in accordance with the application, development licence, and endorsed reports required under condition DL_R04 including the waste types and volumes to be stored and processed during commissioning.

RD_R02

You must not commence commissioning of the operating components of the development activities until you have received the Authority's written approval of

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	the report or reports which is required under condition(s) DL_R01.
DL_R03	You must not commence operation of the works until the Authority's written approval of the reports required by condition(s) DL_C07 has been received.
	At least 60 business days before the start of any construction or installation, you must provide to the Authority the following plans or reports. The reports with any accompanying plans and specifications prepared under this condition must be endorsed by a suitably qualified EPA-appointed auditor (or alternative expert approved by the EPA in writing) or other expert as specified:
	(1) a final Waste Characterisation Report including:
	(a) results of waste characterisation audit or audits of the physical, chemical, hazardous properties, and calorific value analysis results representative of the target waste feedstock to inform the detailed design of the facility;
	(b) verification of the audit or audits conducted in accordance with methodologies approved by EPA;
	(c) audit results of a minimum 12-month period accounting for potential seasonality in the targeted waste feedstock composition; and
	(d) an accompanying waste flow analysis informing the selection of the waste characterisation audit or audits;
DL_R04	(2) a final Waste Acceptance Criteria in a form or manner consistent with the BREF and BATC 2019 that will inform waste supply agreements to ensure targeted waste feedstock received at the activity site is within the operational and design specifications of the facility;
	(3) a final waste acceptance procedures consistent with the BREF and BATC 2019 including:
	(a) ongoing waste auditing and analysis procedures and waste tracking system to:
	(i) demonstrate compliance with the Waste Acceptance Criteria and design specifications of the facility;
	 (ii) audit frequencies conducted at a minimum on a quarterly basis, then, after two consecutive quarterly audits demonstrating compliance with the Waste Acceptance Criteria and design specifications, twice a year;
	(b) waste delivery monitoring procedures including:
	(i) radioactivity detection;
	(ii) weighing of the waste deliveries;
	(iii) visual inspection; and
	(iv) periodic sampling of waste deliveries and analysis of key properties and substances;
	(c) specification of all material, including recyclable material, hazardous

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	material, e-waste, industrial, priority, or reportable priority waste, which is to be removed from the waste before incineration; and
	(d) that only waste which would otherwise be disposed of to landfill will be accepted at the facility;
(4)	a report for the ongoing testing and investigation of existing or emerging technology options for resource recovery including:
	(a) identifying options available for resource recovery for the targeted waste feedstock before incineration so far as reasonably practicable;
	(b) includes cost and market analysis; and
	(c) is completed at a minimum of five-yearly intervals and to the satisfaction of the Authority;
(5)	a report of the final detailed designs and schematics of the storage facilities for the targeted waste feedstock, rejected or quarantined waste, and chemical and fuel storage and associated containment and draining infrastructure:
	(a) demonstrating implementation of BAT consistent with all relevant conclusions of the BREF and BATC 2019; and
	(b) designed in accordance with EPA Publication 1698 ' <i>Liquid storage and handling guidelines</i> ' dated June 2018;
(6)	a report of the final detailed designs and schematics of the facility demonstrating implementation of:
	 (a) the findings or recommendations of a Hazard Identification (HAZID) Study that considers all potential hazardous events and their impact on safe operations. These events may be internal to the facility or external (e.g. large gas release or fire at the proximal major hazard facility);
	(b) the findings or recommendations of a full plant and operations risk assessment, including Hazard Operability Study (HAZOP) that considers all process and environmental risks for operation (normal and other than normal operating conditions);
	(c) good engineering practice and compliance with all relevant Australian or European equivalent engineering, occupational health and safety (OH&S) standards; and
	(d) an accompanying report of the final detailed designs and schematics of the fire mitigation controls, informed by a fire risk study and endorsed by a suitably qualified fire safety engineer and prepared in accordance with EPA Publication 1667.3 'Management and storage of combustible recyclable and waste materials', dated

(7) a report of the final detailed designs and schematics of the facility optimised to treat the waste characteristics specified in the Waste Acceptance Criteria required under condition DL_R04(2) and waste

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acceptance procedures of DL_R04(3), including:

- (a) a heat and chemical mass balance based on the waste characteristics detailed in the final Waste Acceptance Criteria;
- (b) a firing envelope or stoker diagram demonstrating the capacity of the facility to process the waste characteristics detailed in the final Waste Acceptance Criteria;
- (c) BAT-Associated Energy Efficiency Levels and R1 efficiency calculations based on the final Waste Acceptance Criteria demonstrating compliance with each of the applicable efficiency measures of 25-35% gross electrical efficiency or 72-91% gross energy efficiency of the BREF and BATC 2019;
- (d) a technology readiness assessment of the critical technology elements of the facility prepared by a suitably qualified person; and
- (e) implementation of all relevant requirements set out in condition DL_G03 and DL_W08 of this development licence;
- (8) a report detailing computerised fluid dynamics modelling of the incineration furnace demonstrating that:
 - (a) all combustion gases, after the last injection of air, are elevated to a minimum temperature of 850°C with a residence time of at least two seconds before exiting the furnace;
 - (b) all combustion gases are reduced to 250°C, or below, at the outlet of the boiler with optimum residence time to minimise the de novo synthesis of dioxins/furans; and
 - (c) Safe combustion and discharge of process gas flows during other than normal operating conditions;
- (9) a report of the final detailed designs and schematics of the flue gas cleaning system:
 - (a) demonstrating optimisation to treat the waste characteristics specified in the Waste Acceptance Criteria;
 - (b) demonstrating capability to operate within the performance standards specified in condition DL_G03(4)(f);
 - (c) designed considering the maximum flow rate and pollution concentrations and maintain optimal availability;
 - (d) supported by computerised fluid dynamics modelling; and
 - (e) accompanied by an updated Air Quality Impact Assessment based on the final detailed design of the flue gas cleaning system prepared in accordance with EPA Publications 1961 'Guideline for assessing and *minimising air pollution*' dated February 2022;

(10) an Air Emissions Management Plan including:

(a) an air pollution risk management framework prepared in accordance with EPA Publications 1961 '*Guideline for assessing and*



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	<i>minimising air pollution</i> ' dated February 2022 and 1695 'Assessing and controlling risk: A guide for business' dated April 2020;
(b)	flue gas emission monitoring program for normal operating conditions compliant with the frequency and standards of the EU IED 2010/75/EU and BREF and BATC 2019;
(c)	flue gas emission monitoring program for Other Than Normal Operating Conditions compliant with frequency and standards of the IED 2010/75/EU and BREF and BATC 2019 to include the reporting of CEMS and COMS data during such conditions;
(d)	commissioning monitoring and sampling plan methodology for demonstrating compliance with the Directive 2010/75/EU of the European Parliament and emission performance standards specified in condition DL_G03 of the treated flue gas by the completion of commissioning and prepared in accordance with EPA Publication no. 440.1 'A Guide to the Sampling and Analysis of Air Emissions and Air Quality', dated 2002;
(e)	monitoring of the following indicators: Condensable particulate matter, PM ^{2.5} and PM ¹⁰ , Polycyclic Aromatic Hydrocarbons, Polychlorinated biphenyls, Volatile Organic Compounds, Polyhalogenated dibenzo- dioxins/furans, Chlorinated polycyclic aromatics and Chlorinated monocyclic aromatics;
(f)	continuous and non-continuous monitoring of those pollutants and parameters as otherwise specified in conclusions BAT 4 and 5 of the BREF and BATC 2019;
(g)	monitoring of the content of unburnt substances in bottom ash at the frequencies and standards specified in conclusion BAT 7 of the BREF and BATC 2019; and
(h)	An ongoing system for identifying and investigating chemicals of concerns based on operational audits of the targeted waste feedstock accepted at the facility;
(11) a Com public throug	munity and Stakeholder Engagement Plan with details for providing reporting of monitoring results on a website related to the project, or h a website agreed to by EPA, that must include:
(a)	reporting of all periodic monitoring results at a minimum frequency of quarterly;
(b)	reporting of continuous emission monitoring results in real time or as near as practicable;
(c)	reporting incinerator bottom ash monitoring results and the results of any monitoring of emissions to water by the end of the calendar month in which the monitoring is carried out; and
(d)	reporting of compliance status of air emissions against licence limits at a minimum frequency of daily;
(12) a repoi	rt of the final detailed designs and schematics of the primary and



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backup odour control systems:

- (a) demonstrating implementation of BAT for odour emissions during normal and other than normal operation conditions consistent with all relevant BREF and BATC 2019;
- (b) demonstrating the efficacy of the negative pressure odour management control system so far as reasonably practicable during normal and other than normal operation conditions;
- (c) an Odour Management Plan that provides for the ongoing assessment of odour emissions during commissioning, normal, and other than normal operating conditions in accordance with EPA Publication 1883 '*Guidance for assessing odour*' dated June 2022; and
- (d) an updated odour impact assessment prepared in accordance with EPA Publication 1883 '*Guidance for assessing odour*' dated June 2022;
- (13) a report of the final detailed designs and schematics of the noise attenuation controls, including:
 - (a) demonstrating implementation of BAT to minimise noise emissions consistent with the BREF and BATC 2019;
 - (b) the steps followed to ensure iterative consideration through all the planning and design phases of the project, and eventual adoption of all opportunities to minimise the risk of harm from noise to human health and environment so far as reasonably practicable, consistent with the General Environmental Duty;
 - (c) the noise mitigation measures to be implemented at source, and their itemised acoustic performance, including controls to mitigate low frequency noise and noise from truck movements occurring outdoors, and address potential noise character;
 - (d) an assessment conducted in accordance with the Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises and entertainment venues (Noise Protocol, publication 1826) and consistent with the provisions of EPA Publication 1997 '*Technical guide: Measuring and analysing industry noise and music noise*' dated July 2021, that must:
 - (i) demonstrate that the contribution of the project to the effective noise level at noise sensitive areas will not exceed the noise limits calculated in accordance with Part I of the Noise Protocol minus 10 decibels (10 dB);
 - (ii) consider measurement/calculation uncertainty; and
 - (iii) detail contingency measures to be implemented to address, as necessary, the risk of exceedance of the project noise design objectives or of the noise limits of the Regulations, supported by evidence of their effectiveness;



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- (e) an updated assessment of the risk associated with low frequency noise emitted from all noise sources associated with the project, consistent with the provisions of EPA Publication 1996 'Noise guidelines: Assessing low frequency noise' dated June 2021, including details of measures to be implemented to address, as necessary, the risk of unreasonable noise associated with the emission of low frequency noise, supported by evidence of their effectiveness;
- (f) a commissioning measurement program intended to ensure the acoustic objectives of the project, including (but not limited to) project noise design objectives and effectiveness of measures for low frequency noise, are satisfied at the onset of operation;
- (14) a report of the final detailed design and schematics of the bottom ash treatment system and residual waste storage and buildings:
 - (a) demonstrating implementation of BAT for bottom ash treatment and management consistent with the BREF and BATC 2019;
 - (b) the steps followed to ensure iterative consideration through all the planning and design phases of the project, and eventual adoption of all opportunities to minimise the risk of harm from bottom ash treatment and management to human health and environment so far as reasonably practicable, consistent with the General Environmental Duty; and
 - (c) an accompanying monitoring plan consistent with the BREF and BATC 2019 including dust extraction systems, defuse dust emissions, and water emissions;
- (15) a Residual Waste Management Plan that:
 - (a) classifies all residual waste generated at the activity site in accordance with Schedule 5 of the Environment Protection Regulations 2021, EPA Publications 1827.2 'Waste classification assessment protocol' dated March 2021, 1828.2 'Waste disposal categories – characteristics and thresholds', and 1968.1 'Guide to classifying industrial waste', dated August 2021;
 - (b) details the management, reuse, and disposal of incinerator bottom ash, boiler fly ash, and flue gas cleaning system solid residues;
 - (c) details provision for the disposal of residual wastes to landfill only where no other treatment or reuse option is available;
 - (d) details the location of landfills or appropriately permissioned activity sites that will accept the facility's residual wastes;
 - (e) details the incinerator bottom ash output quality features to be part of the EMS including quality assurance and control procedure, testing regime of the various solid residue fractions, and includes, but is not limited to, such details as sampling, measurement procedures, and frequencies;
 - (f) identifies end-of-life risks for reuse or disposal of residual waste;



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- (g) identify disposal options and specify the fate of residual waste that fail to meet the quality assurance and control procedures;
- (16) a report of the final detailed designs of water, wastewater, and stormwater infrastructure:
 - (a) demonstrating implementation of BAT for stormwater and wastewater management consistent with all relevant conclusions of the BREF and BATC 2019;
 - (b) a final water balance for the activity site;
 - (c) final detailed designs of the stormwater detention pond and wastewater holding pond determined in accordance with the final water balance;
 - (d) Investigation of options for alternative water supply to substitute use off potable water and other recommendations of Barwon Water in correspondence titled 're: EPA VICTORIA WORKS APPROVAL application NO.1004200 PROSPECT HILL INTERNATIONAL – 164-200 MCMANUS RD LARA VIC', dated 20 April 2021; and
 - (e) accompanying Wastewater and Stormwater Management and Monitoring Plan/s;
- (17) an updated human health risk assessment based on the final detailed design of the facility that must include consideration of:
 - (a) the updated Air Quality Impact Assessment and AERMOD Modelling results required under condition DL_R04(9);
 - (b) the updated odour impact assessment required under condition DL_R04(12);
 - (c) the updated noise impact assessment required under condition DL_R04(13); and
 - (d) the Residual Waste Management Plan required under condition DL_R04(15);
- (18) a life cycle analysis with a GHG assessment based on the final detailed design of the facility and prepared in accordance with methodologies approved by EPA;
- (19) a Baseline Conditions Report of describing soil, surface, and groundwater at the activity site and its boundary;
- (20) a Construction Environment Management Plan, prepared in accordance with EPA Publication 1834.1 '*Civil construction, building and demolition guide*' dated August 2023.



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Appendix 1 – locality plan



Before relying on the information in this map, carefully evaluate its accuracy, currency, completeness and relevance. Obtain appropriate professional advice before using this information.



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Appendix 2 – activity plan



Before relying on the information in this map, carefully evaluate its accuracy, currency, completeness and relevance. Obtain appropriate professional advice before using this information.



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Appendix 3 – contour plan

There is no contour plan for this licence.



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Appendix 4 - waste acceptance table

There is no waste acceptance for this licence.



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Appendix 5 – air discharge table

There are no air discharge points for this licence.



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Appendix 6 –water discharge table

There are no water discharge points for this licence.



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Appendix 7 – landfill cells

There are no landfill cells for this licence.



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