

NOTICE OF PROPOSED VARIATION OF ENVIRONMENTAL AUTHORISATION Pursuant to section 46(1) of the Environment Protection Act 1993

ADELAIDE BRIGHTON CEMENT LIMITED
Level 1, 157 Grenfell Street
ADELAIDE SA 5001

RE: Environmental Authorisation – EPA 1126

To Authorisation Holder,

The EPA hereby gives Notice pursuant to section 46(1) of the *Environment Protection Act 1993* of the proposed variation of Environmental Authorisation (Licence No. 1126) as set out in Attachment A to this Notice.

The variation is proposed to be made pursuant to section 45(3)(a) of the *Environment Protection Act 1993 (the Act)*.

The reason(s) for the proposed variation is/are:

- To ensure consistency of operational standards between all activity licensees;
- To ensure relevant conditions are in accordance with best practice standards

The EPA invites you to make written submissions in relation to the proposed variation by no later than close of business on **29 SEPTEMBER 2017**

Please address submission or enquiries to:

Lucy McNicol - Email: Lucy.McNicol@sa.gov.au

David Vaughan

Delegate

ENVIRONMENT PROTECTION AUTHORITY

Dated: 13 Sep 2017

ATTACHMENT A

Environmental Authorisation - EPA 1126 ("your Licence")

The EPA proposes to add the following conditions of your Authorisation:

ALTERNATIVE FUELS - OPERATIONAL REQUIREMENTS (U - 725)

The Licensee must ensure that:

1. all alternative fuels listed in Schedule X-1 of this licence are:
 - a. completely combusted in a certified Type B gas appliance;
 - b. not admitted into the certified Type B gas appliance during start-up, shut-down, or where the gas flame is not under stable operating conditions;
2. the following parameters are monitored and recorded whenever alternative fuels listed in Schedule X-1 of this licence are used:
 - a. the alternative fuel type and usage rate;
 - b. the temperature in degrees Celcius of the combustion gases exiting the Type B gas appliance;
 - c. the composition of the combustion gases exiting the Type B gas appliance, including but not limited to the percentage of oxygen, carbon monoxide and methane;
 - d. the temperature in degrees Celcius of the combustion gases entering the electrostatic precipitators;
3. records relating to this condition are kept for the term of the Licence, and are made available to an Authorised Officer upon request.

ANNUAL RETURN AND PAYMENT OF ANNUAL FEES (A - 4)

For the purposes of section 48(2)(a) of the Act, the date in each year for the lodgement of the Annual Return is no later than 90 days before the anniversary of the grant or renewal of the Licence; and

1. For the purposes of section 48(2)(b) of the Act, the date in each year for the payment of Annual Authorisation Fee is the anniversary of the grant of the Licence.

APPROVAL OF OPERATING PROCESSES (A - 6)

The Licensee must not undertake changes to operating processes conducted pursuant to the Licence at the Premises without written approval from the EPA, where such changes:

1. have the potential to increase emissions or alter the nature of pollutants or waste currently generated by, or from the licensed activity; or
2. have the potential to increase the risk of environmental harm; or
3. would relocate the point of discharge of pollution or waste at the Premises.

APPROVAL OF WORKS (A - 5)

The Licensee must not construct or alter a building or structure, or install or alter any plant or equipment, for use of an activity undertaken pursuant to the Licence at the Premises without written approval from the EPA, where such changes:

1. have the potential to increase the emissions or alter the nature of pollutants or waste currently generated by, or from the licensed activity; or
2. have the potential to increase the risk of environmental harm; or
3. would relocate the point of discharge of pollution or waste at the Premises.

CHANGE OF LICENSEE DETAILS (A - 3)

If the Licensee's name or postal address (or both) changes, the Licensee must inform the EPA within 28 days of the change occurring.

CLEAN UP OF SPILLS (S - 218)

The Licensee must, as soon as practicable, cause any material spilt onto the wharf, dock, loading or work area to be removed and reused, or disposed of to an appropriately licenced facility.

NOTES

Materials is as described in Clause 7(1) of Schedule 1 of the Environment Protection Act 1993.

COMMUNITY ENGAGEMENT PLAN (U - 722)

The Licensee must:

1. develop and implement a Community Engagement Plan in consultation with key stakeholders; and
2. provide public access to the Community Engagement Plan (and any subsequent amended version) by the compliance date listed below.

Compliance Date: 31-Jan-2018

DUST MANAGEMENT PLAN (U - 755)

The Licensee must:

1. develop and submit to the satisfaction of the EPA a Dust Management Plan by the date listed below;
2. ensure that the Dust Management Plan includes, but is not limited to:
 - a. specification of trigger values to prevent and minimise particulate emissions;
 - b. specification of trigger values required by paragraph (a) should have regard to the following items:
 - i. existing monitoring data;
 - ii. data collected as part of conditions U-729, U-749;
 - iii. meteorological conditions; and
 - iv. visual observations.
 - c. detailed action and response strategies that will be taken when the trigger values, identified under paragraph (a) are reached, to prevent and minimise particulate emissions;
 - d. provision of quarterly reports on the implementation of the Dust Management Plan to the EPA that includes but is not limited to;

- i. the date, time and trigger value exceeded;
 - ii. action and response strategies implemented;
 - iii. summary of events notified under condition U-765 Ground Level Particulate Notification.
- e. provision of an annual report to the EPA which includes the following but is not limited to:
 - i. a review of all the trigger values identified in paragraph 1.1.2;
 - ii. a review of the effectiveness of all action and response strategies identified in paragraph 1.1.2;
 - iii. a trend analysis of data collected;
 - iv. a review and analysis of community complaints recorded in condition 300-9 with the exceedance of trigger values identified in paragraph 1.1.2; and
 - v. opportunities for improvement in dust management.
- 3. if the Dust Management Plan submitted is unacceptable to the EPA, resubmit within 28 days of being notified in writing of the requirement to do so, a revised plan;
- 4. implement the Dust Management Plan approved in writing by the EPA (or any revised plan approved in writing by the EPA).

Compliance Date: 28-Feb-2018

ENVIRONMENT IMPROVEMENT PROGRAMME (U - 720)

The Licensee must:

- 1. implement the EPA approved Adelaide Brighton Cement Ltd document entitled "Environment Improvement Programme" (Version 1, Dated 1 January 2016);
- 2. develop and submit to the EPA by the date listed below, a revised Environment Improvement Programme (EIP) to the satisfaction of the EPA by the date listed below;
- 3. undertake public consultation in the course of developing the revised EIP;
- 4. ensure that the revised EIP includes, but is not limited to:
 - a. a summary of the results of public consultation undertaken in developing the EIP;
 - b. details of actions, timeframes and milestones to be undertaken by the Licensee to address noise abatement options identified in the Vipac Engineers and Scientists Report, May 2017 'Noise Abatement and Modelling Update';
 - c. a framework for reporting to the EPA three quarterly reports and one annual report, which demonstrate progress and completion of the EIP actions;
 - d. a framework of how the effectiveness of the actions detailed in the EIP will be assessed;
- 5. if the revised EIP submitted is unacceptable to the EPA, resubmit within 28 days of being notified in writing of the requirement to do so, a further revised EIP;
- 6. implement the revised EIP upon approval in writing by the EPA.

Compliance Date: 01-Dec-2017

GROUND LEVEL PARTICULATE MONITORING AND REPORTING PLAN (U - 729)

The Licensee must:

- 1. develop and submit to the satisfaction of the EPA by the date listed below a Ground Level Particulate Monitoring and Reporting Plan;

2. ensure that the Ground Level Particulate Monitoring and Reporting Plan includes, but is not limited to:
 - a. measurement and monitoring of ground level particulate concentrations (as TSP, PM10 and PM2.5) at various locations within the Premises and outside the Premises;
 - b. a methodology for the provision of real-time public access to 24-hour averages and 1-hour averages of PM10 and PM2.5 monitoring data from monitoring stations located outside the Premises; and
 - c. a framework for reporting to the EPA, including submission dates of quarterly and annual reports.
3. if the Ground Level Particulate Monitoring and Reporting Plan submitted is unacceptable to the EPA, resubmit within 28 days of being notified in writing of the requirement to do so, a revised plan;
4. implement the Ground Level Particulate Monitoring and Reporting Plan approved in writing by the EPA (or any revised plan approved in writing by the EPA).

Compliance Date: 31-Jan-2018

GROUND LEVEL PARTICULATE NOTIFICATION (U - 765)

The Licensee must:

1. provide notification to the EPA, within 48 hours, when the following particulate limits are exceeded at any monitoring locations outside the Premises:
 - a. a PM10 concentration of 50 micrograms per cubic metre over a 24 hour averaging period; and
 - b. a PM2.5 concentration of 25 micrograms per cubic metre over a 24 hour averaging period.
2. ensure any notification provided under 1.1.1 of this condition includes but is not limited to:
 - a. the date;
 - b. the cause;
 - c. the measured particulate concentration over the 24 hour averaging period; and
 - d. remedial actions taken to reduce particulate emissions.

LICENCE RENEWAL (A - 2)

For the purposes of section 43(3) of the Act, an application for Renewal of the Licence must be made no later than 90 days before the expiry date of the Licence.

LISTED WASTE AND/OR CONTROLLED WASTE PRODUCER (S - 166)

The Licensee must:

1. prior to the interstate transport of any waste specified in the Listed Waste attachment and/or Controlled Waste attachment to this licence, obtain a Consignment Authorisation from the relevant authority in the state or territory of destination of that waste;
2. ensure a WTC is generated for any waste specified in the Listed Waste and/or Controlled Waste attachments to this licence before that waste is transported to a Destination Facility in South Australia or interstate;
3. provide a copy or copies of the WTC to the transporter of the waste and the EPA; and
4. retain a copy of all manually generated WTC's for not less than 12 months.

OBLIGATIONS TO EMPLOYEES, AGENTS AND CONTRACTORS (A - 1)

The Licensee must ensure that every employee, agent or contractor responsible for undertaking any activity regulated by the Licence, is informed as to the conditions of the Licence.

OPTIONS ASSESSMENT (U - 730)

The Licensee must:

1. ensure a suitably qualified expert:
 - a. undertakes a detailed assessment of options to prevent or minimise particulate emissions from the following sources at the site:
 - i. exposed/unsealed areas;
 - ii. external material stockpiles;
 - iii. vehicle movements;
 - iv. material conveyor and transfer systems; and
 - v. dust collector units associated with processing and storage facilities.
2. submit to the EPA for its approval, by the date listed below, an 'Options Assessment Report', ensuring the report contains:
 - a. the details of the options assessed under part (a) of this licence condition;
 - b. a feasibility assessment of each option;
 - c. the expected environmental outcomes of the options identified;
 - d. the methodology used and considerations made in selecting the preferred measure(s) or action(s); and
 - e. recommendation(s) of proposed options to be taken to prevent or minimise particulate emissions.
3. if the Options Assessment Report submitted is unacceptable to the EPA, resubmit within 28 days of being notified in writing of the requirement to do so, a revised Report.

Compliance Date: 28-Feb-2018

PARTICULATE EMISSIONS - KILN STACK 4A (U - 718)

The Licensee must:

1. take all reasonable and practicable measures to prevent particulate emissions from Kiln Stack 4A exceeding a limit of 100mg/m³, based on a 1 hour average;
2. where particulate emissions exceed the limit specified under 1.1.1, of this condition, take all reasonable and practicable immediate action to reduce particulate emissions to below that limit;
3. provide notification to the EPA as soon as reasonably practicable of any exceedance of the limit specified under 1.1.1 of this condition and include the reason(s) for the exceedance, and the corrective actions implemented to reduce particulate emissions to below that limit.

PARTICULATE EMISSIONS - PRECALCINER STACK 4B (U - 754)

The Licensee must:

1. take all reasonable and practicable measures to prevent particulate emissions from Precalciner Stack 4B exceeding a limit of 60mg/m³, based on a 1 hour average;

2. where particulate emissions exceed the limit specified under 1.1.1 of this condition, take all reasonable and practicable immediate action to reduce particulate emissions to below that limit;
3. provide notification to the EPA as soon as reasonably practicable of any exceedance of the limit specified under 1.1.1 of this condition and include the reason(s) for the exceedance, and the corrective actions implemented to reduce particulate emissions to below that limit.

POLLUTION CONTROL EQUIPMENT REGISTER (S - 2)

The Licensee must:

1. maintain all Pollution Control Equipment to ensure that pollution is minimised; and
2. keep a written record of all inspections of Pollution Control Equipment, which includes:
 - a. the name of the recording officer;
 - b. the date of each inspection of the equipment;
 - c. details of the equipment that was inspected;
 - d. an assessment of whether the equipment was working effectively; and
 - e. the action taken (if required) to rectify any faults or failures.

PREMISES STORMWATER MANAGEMENT (S - 160)

The Licensee must:

1. take all reasonable and practicable measures to prevent contamination of stormwater resulting from prescribed activities undertaken at the Premises; and
2. implement appropriate contingency measures to contain the contaminated stormwater at the Premises unless and until the contaminated stormwater is treated to remove the contamination, or is disposed of at an appropriately licensed facility.

SITE NOISE MINIMISATION (S - 88)

The Licensee must:

1. take all reasonable and practicable measures to minimise noise generated the licensed activity;
2. develop a Noise Management Plan to the satisfaction of the EPA; and
3. implement the Noise Management Plan approved in writing by the EPA (or any revised plan approved in writing by the EPA).

STACK EMISSION TESTING (U - 748)

The Licensee must:

1. test emissions from all exhaust stacks, by the last day of April and October of each year for the following:
 - a. substances included in Schedule Y-1 of this licence;
 - b. temperature;
 - c. moisture;
 - d. pressure; and
 - e. exhaust velocity

2. ensure that the emission testing programme is undertaken when the plant is under stable operating conditions;
3. carry out the emission testing programme in accordance with the methods specified in the EPA document entitled 'Emission Testing Methodology for Air Pollution Manual version 2', dated August 2012; and
4. submit a report to the EPA within 90 days after the conclusion of the emission testing programme, which includes but is not limited to:
 - a. an assessment of whether the tested emissions comply with Schedule Y-1 of this licence;
 - b. the type and mass feed rate of any utilised alternative fuels and/or raw materials listed under Schedule X-1 of this licence that were used during the testing that is required under paragraph 1.1.1; and
 - c. how the requirements outlined in Section 2.6 of the EPA document entitled 'Emission Testing Methodology for Air Pollution Manual version 2', dated August 2012 were complied with.

STACK PARTICULATE MANAGEMENT PLAN (U - 749)

The Licensee must:

1. develop and submit a Stack Particulate Management Plan to the satisfaction of the EPA by the date listed below;
2. ensure that the Stack Particulate Management Plan includes, but is not limited to:
 - a. continuous monitoring of particulate emissions from Kiln Stack 4A and Precalciner Stack 4B in accordance with the EPA document entitled "Emission Testing Methodology for Air Pollution Manual Version 2" dated August 2012;
 - b. how the continuous monitors will be calibrated in accordance with Appendix B of the EPA document entitled "Emission Testing Methodology for Air Pollution Manual Version 2" dated August 2012;
 - c. what actions will be taken when stack particulate emission trigger values listed in schedule Z-1 are exceeded;
3. ensure the Stack Particulate Management Plan includes a methodology and framework for quarterly reports to the EPA on the last day of January, April, July and October of each year, which includes but is not limited to:
 - a. details of incidents where a particulate emission limit in condition U-718 or U-754 is exceeded, such details to include but not be limited to:
 - i. the date, time and duration;
 - ii. the cause;
 - iii. the measured particulate concentration over the duration of the event;
 - iv. immediate actions taken to reduce particulate emissions;
 - v. corrective actions taken to prevent future events of the same kind; and
 - vi. reporting of particulate concentrations as milligrams per cubic metre at STP, dry basis.
4. ensure that the Stack Particulate Management Plan provides for an annual report to the EPA on the last day of October of each year, which includes but is not limited to:
 - a. a trend analysis of events reported in 1.1.3;
 - b. a trend comparison of any exceedence events over the past 12 months when compared to the preceeding 12 months; and

- c. identification of any opportunities for improvement in order to decrease the frequency, duration and value of any exceedence events.
- 5. if the Stack Particulate Management Plan submitted is unacceptable to the EPA, resubmit within 28 days of being notified in writing of the requirement to do so, a revised plan;
- 6. implement the Stack Particulate Management Plan approved in writing by the EPA (or any revised plan approved in writing by the EPA).

NOTES

The Licensee must ensure that any exceedence event that results in environmental harm as defined under Sections 79 and 80 of the Environment Protection Act 1993, is notified pursuant to Section 83 of the Environment Protection Act 1993.

Compliance Date: 28-Feb-2018

VARIATION OF CONDITIONS OF LICENCE (pursuant to section 45(3) of the Environment Protection Act, 1993) (U - 753)

The EPA may:

- 1. Impose conditions or vary conditions of this licence at any time by notice in writing to the Licensee in the following circumstances:
 - a. in relation to noise emissions, particulate emissions from fugitive sources and/or point sources, including a condition requiring revision of the EIP, based on:
 - i. the progress of the implementation of the EIP;
 - ii. the reporting required under the EIP;
 - iii. the ground level particulate monitoring data and information;
 - iv. the stack monitoring data and information;
 - v. Stack Management Plan reports;
 - vi. Dust Management Plan reports;
 - vii. Noise Management Plan reports; and
 - viii. outcomes of the Options Assessment Report.

WASTEWATER (S - 18)

The Licensee must take all reasonable and practicable measures to prevent wastewater or contaminated stormwater from discharging onto land and/or into waters.

DEFINITIONS

24 hour average: Calendar day average

AUTHORISATION FEE PAYMENT DATE: means the anniversary of the grant or renewal of this authorisation.

CERTIFIED TYPE B GAS APPLIANCE: means an appliance with a gas consumption in excess of 10 megajoules per hour which has been certified under the Gas Act 1997 as meeting the requirements of AS3814 and AS/NZS5601.

CONTAMINATED STORMWATER: is as defined in the Environment Protection (Water Quality) Policy 2015.

CONTROLLED WASTE: means any wastes of a category listed in Column 1 of the Table in Schedule 1 that has 1 or more characteristics listed in the Table in Schedule 2 of the Environment Protection (movement of Controlled Waste) Policy 2014.

DESTINATION FACILITY: 'Destination Facility' in relation to a consignment of controlled waste means the depot, facility or works to which the waste is, or is to be delivered under the consignment.

ENVIRONMENTAL HARM: means the same as is defined in section 5 of the Environment Protection Act 1993.

LISTED WASTE: means wastes listed in Part B of Schedule 1 of the Environment Protection Act 1993.

PM10: means 'particles with an equivalent aerodynamic of less than 10 micrometres, as passed by a size selective inlet'.

PM2.5: means 'particles with an equivalent aerodynamic of less than 2.5 micrometres, as passed by a size selective inlet'.

POLLUTION CONTROL EQUIPMENT: means 'control equipment' as defined in the Environment Protection (Air Quality) Policy: any device that controls, limits, measures, records or indicates air pollution.

WASTE: As defined under the Environment Protection Act 1993, Waste means -

(a) any discarded, rejected, abandoned, unwanted or surplus matter, whether or not intended for sale or for recycling, reprocessing, recovery or purification by a separate operation from that which produced the matter; or

(b) anything declared by regulation (after consultation under section 5A) or by an environment protection policy to be a waste, whether of value or not.

WASTEWATER: as defined in the Environment Protection (Water Quality) Policy 2015.

WATERS: is as defined in the Environment Protection (Water Quality) Policy 2015.

EIP: means Environment Improvement Programme.

STP: means standard temperature and pressure (zero degrees Celsius and 101.3 kiloPascals absolute).

WTC: means Waste Transport Certificate.

The EPA proposes to remove the following conditions of your Authorisation:

ALTERATIONS to PLANT and EQUIPMENT (400 - 348)

ALTERNATIVE FUELS - OPERATIONAL REQUIREMENTS (32 - 23)

AMBIENT PARTICULATE LEVEL MONITORING AND REPORTING PLAN (305 - 634)

ANNUAL RETURN PROCESS (400 - 78)

CHANGE OF LICENSEE DETAILS (400 - 338)

CHANGE to PROCESS EMISSIONS or WASTE (400 - 347)

DISPLAY LICENCE (400 - 339)

DUST MINIMISATION (330 - 209)

EMISSION EXCURSIONS (32 - 4)

EMISSION TESTING (32 - 34)

Implement EIP (U - 583)

IMPOSE OR VARY CONDITIONS (400 - 201)

LICENCE INFORMATION TO EMPLOYEES/CONTRACTORS (400 - 215)

LICENCE RENEWAL PROCESS (400 - 79)

LISTED WASTE MANAGEMENT (80 - 45)

LISTED WASTE TO BE TRANSPORTED WITHIN SA (80 - 43)

NOTIFICATION OF FAILURE TO MEET COMPLIANCE DATE(S) (310 - 205)

POLLUTION CONTROL EQUIPMENT REGISTER (330 - 162)

PRODUCTION OF CONTROLLED WASTE TO BE TRANSPORTED FROM SA TO ANOTHER STATE OR TERRITORY (80 - 44)

STACK PARTICULATE EMISSIONS MONITORING AND REPORTING PLAN (305 - 635)

WHARF - SPILLS (330 - 210)