

ENVIRONMENT PROTECTION AUTHORITY
SOUTH AUSTRALIA

Environmental Authorisation under Part 6 of the Environment Protection Act 1993

LICENCE

EPA 35

Adelaide Brighton Cement Ltd

Stockwell Road
ANGASTON SA 5353

Location

Pieces 3 and 4, Stockwell Road, ANGASTON 5353 SA

Licensed Activities

The Licensee(s)

- Adelaide Brighton Cement Ltd

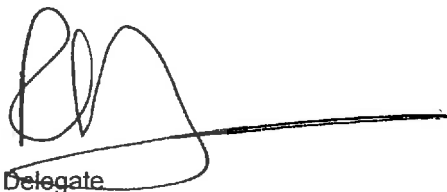
is (are) authorised to undertake the following activities of environmental significance under Schedule 1 Part A of the Environment Protection Act 1993 (the Act), subject to the conditions of licence set out in the attached pages:

- | | |
|---------|--|
| 2(3) | Cement Works |
| 7(3)(c) | Crushing, Grinding or Milling: rock, ores or minerals |
| 8(2)(a) | Fuel Burning: rate of heat release exceeding 5 megawatts |

Term of Licence

Commence Date: 01-NOV-2009

Expiry Date: 31-OCT-2019



Delegate

Environment Protection Authority

13 January 2011

This licence is not valid unless signed

Conditions of licence to follow

Definitions

"the Act" means the Environment Protection Act 1993.

"the Authority" means the Environment Protection Authority established under Division 1 of Part 3 of the Act.

"the Premises" means, at the time of issue of this authorisation, the whole of the land comprised in Titles Register - Certificate of Title, Crown Lease and Crown Record:

List of Titles

CT 5965/584

"Authorisation Fee Payment Date" means the anniversary of the grant or renewal of this authorisation.

"Authorised Officer" means a person appointed to be an authorised officer pursuant to Part 10 Division 1 Section 85 of the Act.

"pollution control equipment" means equipment which is designed, installed and operated for the primary purpose of reducing air and noise emissions from a stationary source.

Acronyms

"EPA" means Environment Protection Authority.

"EIP" means Environment Improvement Programme.

"AFRM" means Alternative Fuel and/or Raw Material.

"EEIP" means Economic and Environmental Improvement Plan.

Explanatory Notes

(NB. - Explanatory Notes do not constitute a part of this Authorisation)

1. THIS LICENCE WAS AMENDED DURING THE TERM OF LICENCE PURSUANT TO SECTION 46(3)(b)(i) AND LICENSEE'S CONSENT PROVIDED BY EMAIL ON 12 JANUARY 2011.
2. This licence does not permit any activity in breach of any other approval by any other authority. For example, this licence does not permit any activity on the Premises which is not authorised under the Development Act 1993. It is the responsibility of the Licensee to ensure that any action or activity referred to in this licence is permitted by, and is carried out in compliance with, statutory requirements.
3. This licence is subject to the Act.
4. Conditions of this licence can be varied by the Authority in accordance with section 45 of the Act.
5. This licence can be suspended, cancelled or surrendered during the term of the licence in accordance with sections 55 and 56 of the Act.
6. The Licensee must report to the Authority (on EPA emergency phone number 1800 100 833) all incidents causing or threatening serious or material environmental harm, upon becoming aware of the incident, in accordance with section 83 of the Act.
7. The Licensee must be aware of, and comply with:
 1. the requirements of the Environment Protection Policies which operate pursuant to the Act; and
 2. the requirements of any National Environment Protection Measure which operates as an Environment Protection Policy under the Act.NB: These requirements govern permissible procedures and protocols, emission or concentration levels, as well as operation and/or maintenance standards of plant and equipment.
8. Should the conditions of this licence require that the Licensee submit a report or other information to the Authority, then that report or that information becomes the property of the Authority.
9. The Authority undertakes to provide written advice within 14 days of receipt of all information required for assessment.

CONDITIONS OF LICENCE

The Licensee is authorised to conduct the prescribed activities as described in this licence on the Premises nominated, subject to the following conditions:

Compliance Date**Environment Improvement Programme**

1. (310-203) ENVIRONMENT IMPROVEMENT PROGRAMME (EIP)
- The Licensee must implement and comply with the Adelaide Brighton Cement Ltd document as approved by the Authority, entitled 'Document number 35 EIP 2009' and dated 18 November 2010.
2. (310-204) NOTIFICATION OF FAILURE TO MEET COMPLIANCE DATE(S)
- The Licensee must:
1. notify the Authority within 10 business days of being made aware of a failure to meet any of the compliance dates provided in section 3 of the EIP referred to in condition (310-203) of this licence; and
 2. submit a summary report to the Authority within a further 10 business days, detailing an updated programme to achieve final compliance, including a revised compliance date(s).

Alternative Fuel and/or Raw Material Trial Conditions

3. (32-15) The Licensee must:
1. ensure that the only types of AFRM to be burned in the industrial fuel burning equipment on the Premises are those defined in Schedule X-1 (attached to this licence); and
 2. comply with the requirements of paragraph 1 this condition, except during the events of trial burning of AFRM in the industrial fuel burning equipment on the Premises whereby the trial is undertaken in accordance with Schedule W-1 (attached to this licence).

Activity Specific Condition(s)

4. (32-35) EMISSION TESTING
- The Licensee must:
1. test emissions from all exhaust stacks, by the last day of July of each year for the following:
 - 1.1 substances included in Schedule Y-1, attached to this licence;
 - 1.2 solid particles;

- 1.3 temperature;
- 1.4 moisture;
- 1.5 pressure; and
- 1.6 exhaust velocity;
2. ensure that the emission testing programme is undertaken in addition to emission testing for each trial of alternate fuels or raw materials;
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' dated March 1995; and
4. submit the emission testing results to the Authority no later than 90 days after the conclusion of the testing programme.

5. (32-36)

STACK MONITORING AND REPORTING

The Licensee must:

1. continuously monitor the Rotary Kiln 1 Stack and the Rotary Kiln 2 Stack for solid particles;
2. prepare and submit an annual report to the Authority prior to the last day of October each year that sets out for the previous 12 months to 30 September each year:
 - 2.1 a graphical record of the current year stack monitoring with the previous 1, 3 and 5 years, commencing 31 October 2010, which shows:
 - 2.1.1 the particulate emissions from the Rotary Kiln 1 Stack and the Rotary Kiln 2 Stack in milligrams per cubic metre at STP, or, where this data is not available, in percentage opacity;
 - 2.2 the following information relating to stack emissions in excess of 250 milligrams per cubic metre at STP:
 - 2.2.1 the date, time and duration of each occasion:
 - 2.2.1.1 on which solid particles from the exhaust stacks were emitted in excess of 250 milligrams per cubic metre at STP, dry basis at the Rotary Kiln 1 Stack and the Rotary Kiln 2 Stack; and
 - 2.2.1.2 on which the No. 3 Polysius Lepol Kiln 'Top Hat' relief stack was raised when the main motor was operational;
 - 2.2.2 for each occasion in 2.2.1 above, provide
 - 2.2.2.1 reasons why stack emissions were exceeded;

2.2.2.2 remedial measures taken including those taken to prevent recurrence of the event; and

2.2.2.3 the total number of occasions per exhaust stack.

6. (34-38)

FILTER

The Licensee must ensure that a filter is installed on each silo that:

1. has a cleaning device, and
2. is designed so that the concentration of solid particle emissions does not exceed 250 milligrams in each cubic metre of residual gases.

7. (34-34)

STORAGE SILO ALARM(S)

The Licensee must ensure that:

1. all storage silos are fitted with high level audible and/or visual alarms; and
2. all alarm apparatus is maintained in working order at all times.

8. (330-211)

TRUCK CLEANING

The Licensee must:

1. only wash vehicles at the Premises within a waste water collection system; and
2. direct all bulk tankers loaded on site to exit the site through a vehicle wash.

9. (330-209)

DUST MINIMISATION

The Licensee must:

1. take all reasonable and practicable measures to minimise dust generation during the handling and storage of materials at the Premises;
2. maintain all access roads at the Premises as often as necessary so as to minimise dust generation and build up; and
3. maintain a register for each area housekeeping programme that sets out:

- 3.1 the time and date that an area was inspected;
- 3.2 the time and date that an area or piece of equipment was cleaned;
- 3.3 details of what housekeeping duties need to be carried out;
- 3.4 the date and time the housekeeping duties were carried out; and
- 3.5 the result of the housekeeping duty task.

10. (330-162)

POLLUTION CONTROL EQUIPMENT REGISTER

The Licensee must:

- 1. maintain a register for each inspection of pollution control equipment that sets out :
 - 1.1. the date of the inspection;
 - 1.2. the equipment that was inspected;
 - 1.3. whether the equipment was working effectively;
 - 1.4. whether there was any equipment fault or failure;
 - 1.5. any immediate action taken in response to that fault or failure;
 - 1.6. any planned action to be taken in response to that fault or failure;
 - 1.7. the date and nature of any subsequent repairs, modification or replacement of the equipment; and
 - 1.8. the name of the recording officer; and
- 2. must retain the register for the duration of this licence.

11. (300-22)

COMPLAINTS REGISTER

The Licensee must:

- 1. maintain a Register of complaints received regarding the Licensee's operations that sets out:
 - 1.1 the date and time that the complaint;
 - 1.2 the name and address of the complainant (where provided);
 - 1.3 details of the complaint;

- 1.4 the date and time of the events giving rise to the complaint including other relevant information and the likely cause at the time of the events;
- 1.5 the job title of the person receiving the complaint;
- 1.6 any action taken in response to the complaint; and
- 1.7 the action taken in response to the complaint; and
2. retain the Register for the duration of this licence.

General Administrative Condition(s)

12. (400-338) If the Licensee's name or postal address (or both) changes, then the Licensee must inform the Authority within 28 days of the change occurring.
13. (400-339) The Licensee must display a copy of this licence on a notice board at the Premises.
14. (400-215) The Licensee must ensure that every employee, agent or contractor responsible for carrying out any task controlled by this licence is properly advised as to the requirements of this licence and the general environmental duty under section 25 of the Act that relate to that person's tasks and responsibilities as employee, agent or contractor.
15. (400-201) **IMPOSE OR VARY CONDITIONS**

The Authority may during the term of this licence impose or vary conditions:
 1. in relation to testing, monitoring and reporting referred to in section 52(1)(a) of the Act;
 2. which require the Licensee, in accordance with section 53 of the Act, to prepare a plan of action to be taken in the event of an emergency;
 3. which require the Licensee to develop an EIP as set out in section 54 of the Act and to comply with the requirements of the EIP;
 4. which relate to provision of information relating to the Licensee or any agent or contractor undertaking any activity on behalf of the Licensee pursuant to this licence; and
 5. which relate to provision of information relating to the activity subject to the licence including the levels of inputs and outputs and the amounts of pollutants or waste generated by the activity.

16. (400-347)

CHANGE to PROCESS EMISSIONS or WASTE

The Licensee must:

1. not undertake changes to operating processes at the Premises without written approval from the Authority, where such changes:
 - 1.1 have the potential to increase the emissions, or alter the nature, of pollutants or waste currently generated by or from the licensed activity; or
 - 1.2 have the potential to increase the risk of environmental harm; or
 - 1.3 would relocate the point of discharge of pollution or waste at the Premises;
2. ensure that written application is submitted to the Authority on the EPA form entitled 'Application for Change to Process Emissions or Waste', that details the proposed changes; and
3. pay the prescribed application fee indicated on the Application form.

NOTES:

- i. The Authority may during the term of this licence impose or vary the conditions of this authorisation upon approval of an application made in accordance with this condition.
- ii. The 'Application for Change to Process Emissions or Waste' form is available on the EPA website at - http://www.epa.sa.gov.au/xstd_files/Licensing/Form/06_process_change.pdf.

17. (400-348)

ALTERATIONS to PLANT and EQUIPMENT

The Licensee must:

1. not construct or alter a building or structure, or, install or alter any plant or equipment at the Premises, without written approval from the Authority, where such changes:
 - 1.1 have the potential to increase the emissions, or alter the nature of pollutants or waste currently generated by, or from the licensed activity, or
 - 1.2 have the potential to increase the risk of environmental harm, or
 - 1.3 would relocate the point of discharge of pollution or waste at the Premises;
2. ensure that written application is submitted to the Authority on the EPA form entitled 'Application for Alterations to Plant and Equipment'

that details the proposed changes; and

3. pay the prescribed application fee indicated on the Application form.

NOTES.

- i. The Authority may during the term of this licence impose or vary the conditions of this authorisation upon approval of an application made in accordance with this condition.
- ii. The 'Application for Alterations to Plant and Equipment' form is available on the EPA website at - http://www.epa.sa.gov.au/xstd_files/Licensing/Form/06_equipment_change.pdf.
- iii. In some circumstances installation of plant and equipment may be subject to consent under the provisions of the Development Act, which may have priority over the obligations of this condition - check with the licence coordinator for advice prior to completing the Application form.

18. (400-78)

The Licensee must:

1. submit an annual return at least 90 days before the authorisation fee payment date, if this licence is for a term of two years or more; and
2. pay the annual authorisation fee by the authorisation fee payment date.

19. (400-79)

An application for renewal of this licence must be made at least 90 days before the expiry date of this licence.



Delegate

Environment Protection Authority

Date 14/1/2011

There are 3 attachments to this Licence

Schedule W-1 AFRM Trial Management

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W-1.1 Pre-Trial Report

The Licensee must:

1. prepare a pre-trial report for the use of AFRM, which must contain, but not be limited to, the following:
 - 1.1 demonstration of beneficial purposes;
 - 1.2 demonstrated support for the waste hierarchy;
 - 1.3 the purpose of the trial;
 - 1.4 an assessment of the risks associated with the use of the AFRM and risk mitigating measures including, but not limited to:
 - 1.4.1 the predicted mass balance of the AFRM including predicted emissions to air and baseline emissions for comparison;
 - 1.4.2 the results of previous stack emissions testing using the AFRM, if available; and
 - 1.4.3 any risks associated with on-site storage, handling and feed into the process;
 - 1.5 tests proposed to be undertaken during the trial (for example stack emissions testing, including the analytes to be tested). Note: It is recommended that, as a minimum, the stack emissions testing is consistent with licence condition 32-34. If the Licensee proposes to exclude any of the analytes and properties in licence condition 32-34 from testing, the Licensee must highlight this and provide justification in the pre-trial report for EPA approval;
 - 1.6 records to be kept and duration that records will be kept during and after the trial; and
 - 1.7 the proposed dates for trial commencement and completion;
2. submit the pre-trial report to the Authority, at least 30 days before the commencement of a trial, for approval.
3. If the pre-trial report submitted in accordance with paragraph 2 is not acceptable to the Authority, resubmit a revised version of the post trial report (incorporating any additions or alterations that are required by the Authority) within the time period advised by the Authority in writing.

W-1.2 Trial Record

The Licensee must:

1. keep a record at the Premises of the details listed in the pre-trial report and any records required by EPA condition of approval; and
2. ensure that the records, described in paragraph 1 hereof, are made available to an Authorised Officer upon request at any time during or after the trial taking into account the duration that records will be retained as specified in the pre-trial report.

Schedule W-1 AFRM Trial Management (continued)

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W-1.3 Post-Trial Report - Summary of AFRM Trial

The Licensee must:

1. prepare a post-trial report 'Summary of AFRM Trial' including, but not limited to, the following information:
 - 1.1 the total quantity of AFRM used during the trial;
 - 1.2 the dates and times when the trial commenced and concluded;
 - 1.3 the results of stack emissions testing for the analytes and properties specified in any relevant pre-trial reports and baseline emissions for comparison, where applicable; and
 - 1.4 an assessment of the suitability of the AFRM for ongoing use.
2. submit the 'Summary of AFRM trial' post -trial report to the Authority within 90 days of the completion of each trial, within 30 days after receipt of stack emissions or modelling results, whichever is greater; and
3. if the post-trial report submitted in accordance with paragraph 2 is not acceptable to the Authority, resubmit a revised version of the post trial report (incorporating any additions or alterations that are required by the Authority) within the time period advised by the Authority in writing.

W-1.4 Post-Trial Report - Summary of AFRM Trial

If the AFRM has been found to be suitable for ongoing use, the Licensee must:

1. prepare a post-trial report 'Request for Ongoing Use of AFRM' for EPA approval. The Report must contain, but is not limited to, the following information:
 - 1.1 demonstration of beneficial purposes;
 - 1.2 demonstrated support for the waste hierarchy;
 - 1.3 an assessment of the risks associated with the use of the AFRM and risk mitigating measures including, but not limited to,
 - 1.3.1 the results of stack emissions testing for the analytes and properties specified in any relevant pre-trial reports and baseline emissions for comparison.
 - 1.3.2 air dispersion modelling and ground level concentrations for each substance analysed, as specified in any relevant pre-trial reports, as well as ground level concentrations for baseline emissions for comparison;
 - 1.3.3 any risks associated with on-site storage and handling;
 - 1.3.4 any relevant complaints or enquiries received during the trial
2. submit the 'Request for ongoing use of AFRM' post -trial report to the Authority at least 60 days before requiring approval; and
3. if the post-trial report submitted in accordance with paragraph 2 is not acceptable to the Authority, resubmit a revised version of the post trial report (incorporating any additions or alterations that are required by the Authority) within the time period advised by the Authority in writing.

(Note: Guidance on the use of refuse derived fuel is provided in the EPA 'Standard for the production and use of refuse derived fuel' dated June 2009]

Schedule X-1

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Schedule X-1

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Schedule X-1

AFRM	APPROVED FEED RATE
Natural Gas	Unlimited
Carbon Powder	Kiln 1: Maximum - 2.50 kilograms per hour Kiln 3: Maximum – 335 kilograms per hour
Winery Washwater	Maximum 50 megalitres per annum
Grey Sand	Maximum – 4 tonnes per hour per kiln Maximum – 8.8 tonnes per hour per mill
Recycled Used Oil	Maximum - 500 litres per hour
Used Foundry Sand	Maximum - 2 tonnes per hour