

Our reference : DOC14/86725
Contact : Damien Rose

Mr Chris Ritchie
Manager – Industry
Planning & Environment
GPO Box 39
SYDNEY NSW 2001

ELECTRONIC MAIL

30 May 2014

Dear Mr Ritchie

**Re: Penrith Glass Beneficiation Project SSD - 5267 – 126 Andrews Road Penrith
Finalised EPA Recommended Conditions of Approval**

I refer to the proposed Penrith Glass Beneficiation Project SSD-5267 located at 126 Andrews Road Penrith.

The Environment Protection Authority (EPA) provided Department of Planning and Environment (DoPE) recommended conditions of approval on the 29 October 2013. Since that submission the EPA has responded to comments raised by the proponent and has now finalised these recommendations. These are at Attachment A.

If the proposal is approved, the proponent would be required to hold an Environment Protection Licence for Resource Recovery pursuant to Schedule 1 of the *Protection of the Environment Operations Act*, 1997. The proponent will also be required to provide the EPA with a financial assurance, in the form of a bank guarantee, before a licence will be issued. The amount of the financial assurance is to be determined at the issue of the EPA licence.

Should you have any queries regarding the attached conditions, please contact Damien Rose on 9995 5586.

Yours sincerely



Trevor Wilson
Unit Head Waste Compliance
Environment Protection Authority
Att. EPA recommended conditions of approval

ATTACHMENT A – EPA RECOMMENDED CONDITIONS OF APPROVAL

The EPA has included the following recommended conditions of approval.

Hours of operation and limits upon external night-time activity

- Internal activity may be conducted 24 hours/day
- No activities should be carried out on the eastern side of the building between 6pm and 6am except in case of an emergency;
- All roller shutter doors on the eastern side of the building are to remain closed between the hours of 6pm and 6am;
- All roller shutter doors on the southern side of the building are to remain closed except to allow ingress/egress for mobile equipment between the hours of 6pm and 6am. These doors must be automatically operated so as to remain closed as much as practicable subject to safety requirements;
- As far as practicable, cullet is to be transferred to the external bunkers between the hours of 6am and 6pm;
- Only a single front end loader will operate between the hours of 6pm and 6am at the southern side of the building.

Air Emissions

- All loading, crushing and processing must occur inside a fully enclosed building.
- Water sprays/foggers must be used to control particle emissions at all times when crushed cullet is transferred to external storage bunkers

Purpose: Compliance with the process scenario modelled in the air quality assessment.

- For all emission sources at the site the proponent must prepare an air quality management plan that includes, but is not limited to:
 - a. Key performance indicator(s);
 - b. Monitoring method(s);
 - c. Location, frequency and duration of monitoring;
 - d. Record keeping;
 - e. Response mechanisms; and
 - f. Compliance reporting.

Dangerous Goods Storage

- All Dangerous Goods shall be stored onsite in accordance with the appropriate Australian Standard.
- The decanting of any chemicals or dangerous goods, including the fuelling of plant or vehicles from the 2000L bunded diesel tank, is to be conducted wholly within a covered and bunded area that excludes rainwater and is impervious to the fluid stored within.

Glass Cullet Storage

- Crushed cullet must only be stored in purpose built storage bunkers when stockpiled outside a building. Externally stored material shall be restricted to finished glass cullet that is free of contaminants.

- All external surfaces including the external concrete hardstand areas shall be routinely maintained so as to be kept free of crushed glass and other contaminants. Note this condition would not be applied to the area immediately contained within the external storage bays.
- Finished glass cullet stockpiles shall be maintained below the 5m height of the bunkers at all times, to ensure the effective containment of glass cullet and to reduce the potential to generate wind born dust.
- Finished glass cullet storage area shall be constructed so as to provide sufficient windbreak to control dust emissions from loading activities.

Stormwater treatment devices

- CDS in-line stormwater treatment devices or similar must be installed. Where CDS in-line stormwater treatment devices are not installed, the applicant should install devices that will achieve the same or better performance criteria. These must also be routinely inspected and maintained so as to operate within design parameters.
- The proponent shall install and maintain floodwater containment bunds around the storage bay areas to ensure that all water entering these bays must discharge via the stormwater interceptors.

Cleaning of Premises to minimise environmental impact

- The operator must maintain and clean the internal surfaces of the Premises to ensure operating conditions inside the facility minimise the potential to generate odour, dust and the carriage of waste outside the factory.

Noise Limit Conditions

- Non-tonal reversing alarms must be installed on all items of mobile equipment;
- The acoustic enclosure for the external dust collector is to be constructed so as to minimise noise impacts on surrounding receivers; and
- All noise mitigation measures should be included in the proponent's Environmental Management Plan and Operational Noise Management Plan.

L6.1 Noise generated at the premises must not exceed the noise limits in the table below. The locations referred to in the table below are indicated by *Figure 5-29 Site Locations and Considered Receiver Locations* provided in the Environmental Assessment - Noise Impact Assessment for the Glass Recovery Project (Report No. 111144_EIS_Rep_Final) dated May 2013 [released 29 May 2013].

NOISE LIMITS IN dB(A)

Locality	Location	Day Shoulder	Evening	Night	
		L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{A1} (1 minute)
R1 – R11	Residential Receivers	46	42	35	45
R12 R13	- Active Recreational Areas	55 [When in use]			

- L6.2** For the purpose of condition L6.1;
- Day / Shoulder is defined as the period from 5am to 6pm.
 - Evening is defined as the period 6pm to 10pm.
 - Night is defined as the period from 10pm to 5am.
- L6.3** The noise limits set out in condition L6.1 apply under all meteorological conditions except for the following:
- a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or
 - b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or
 - c) Stability category G temperature inversion conditions.
- L6.4** For the purposes of condition L6.3:
- a) Data recorded by the meteorological station identified as the Bureau of Meteorology Station located at Penrith must be used to determine meteorological conditions ; and
 - b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.
- L6.5** To determine compliance:
- a) with the $L_{eq(15 \text{ minute})}$ noise limits in condition L6.1, the noise measurement equipment must be located:
 - approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or
 - within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable
 - within approximately 50 metres of the boundary of a National Park or a Nature Reserve.
 - b) with the $L_{A1(1 \text{ minute})}$ noise limits in condition L6.1, the noise measurement equipment must be located within 1 metre of a dwelling façade.
 - c) with the noise limits in condition L6.1, the noise measurement equipment must be located:
 - at the most affected point at a location where there is no dwelling at the location; or
 - at the most affected point within an area at a location prescribed by conditions L6.5(a) or L6.5(b).
- L6.6** A non-compliance of condition L6.1 will still occur where noise generated from the premises in excess of the appropriate limit is measured:
- at a location other than an area prescribed by conditions L6.5(a) and L6.5(b); and/or
 - at a point other than the most affected point at a location.
- L6.7** For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

Noise Monitoring Conditions

- M7.1** The meteorological weather station must be maintained so as to be capable of continuously monitoring the parameters specified in condition M7.2.
- M7.2** For each monitoring point specified in the table below the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns.

Point <insert point number as listed in table P1.1>

Parameter	Units of Measure	Frequency	Averaging Period	Sampling Method
Air temperature	°C	Continuous	1 hour	AM-4
Wind direction	°	Continuous	15 minute	AM-2 & AM-4
Wind speed	m/s	Continuous	15 minute	AM-2 & AM-4
Sigma theta	°	Continuous	15 minute	AM-2 & AM-4
Rainfall	Mm	Continuous	15 minute	AM-4
Relative humidity	%	Continuous	1 hour	AM-4

M8 Requirement to Monitor Noise

M8.1 To assess compliance with Condition L6.1, attended noise monitoring must be undertaken in accordance with Conditions L6.5 and:

- a) at each of locations R1, R3, R5, R7, R9 and R11 listed in Condition L6.1;
- b) occur bi-annually in a reporting period;
- c) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of:
 - 1.5 hours during the day;
 - 30 minutes during the evening; and
 - 1 hour during the night.
- d) occur for three consecutive operating days.

R4 Noise Monitoring Report

A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the bi-annual monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:

- a) an assessment of compliance with noise limits presented in Condition L6.1; and
- b) an outline of any management actions taken within the monitoring period to address any exceedences of the limits contained in Condition L6.1.

Additions to Definition of Terms of the licence

- NSW Industrial Noise Policy - the document entitled "New South Wales Industrial Noise Policy published by the Environment Protection Authority in January 2000."
- Noise - 'sound pressure levels' for the purposes of conditions L6.1 to L6.7.