



Licence Holder: Doral Fused Materials Pty Ltd

ACN: 009 415 025

Licence Number: L5908/1990/11

File Number: DEC1758

Premises: Doral Fused Materials Pty Ltd
1 Alumina Road
East Rockingham
Lot 6 on Diagram 85297
Certificate of Title Volume 2157 Folio 166

Date of amendment: 10 May 2017

Amendment

The Chief Executive Officer (CEO) of the Department of Environment Regulation (DER) has amended the above licence in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act and follows.

Date signed: 10 May 2017

Jonathan Bailes

A/Senior Manager - Industry Regulation (Process Industries)

an officer delegated under section 20 of the Environmental Protection Act 1986 (WA)

Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

DER's *Guidance Statement: Decision Making* and *Guidance Statement: Risk Assessments* have informed the decision made on this amendment.

Amendment Description

Doral Fused Materials Pty Ltd (the Licence Holder) holds Licence L5908/1991/11 to operate a mineral sands processing and metal refining facility at 1 Alumina Rd, East Rockingham (the Premises). The licence was last amended on 29 September 2016 (Existing Licence).

This amendment was initiated by the Licence Holder who lodged an application for licence amendment with DER on 14 March 2017 and 3 April 2017 (the Application). The Application was in relation to the proposed crushing of spodumene using existing equipment at the Premises.

The Licence Holder manufactures fused minerals in electric arc furnaces by heating high-purity raw materials to their fusion point. After cooling, the fused products are crushed, milled, sized and packaged. The Licence Holder proposes to accept spodumene on a toll basis for the purposes of processing through the existing crushing circuit only. The Licence Holder proposes to process up to 20,000 tonnes per annum (tpa).

The crushing plant is located within enclosed buildings and fitted with existing baghouse dust collection systems that discharge to atmosphere via stacks.

The Existing Licence specifies the following prescribed activities as listed in Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) and shown in Table 1.

Table 1: Prescribed premises categories in the existing licence

Classification of Premises	Description
Category 8	Mineral sands mining and processing: premises on which mineral sands ore is mined, screened, separated or otherwise processed.
Category 44	Metal smelting and refining: premises on which metal ore, metal ore concentrate or metal waste is smelted, fused, roasted, refined or processed.

Decision

The Delegated Officer noted that spodumene will be processed at a capacity of 20,000 tpa in existing equipment used for the crushing fused alumina and zirconia materials produced on the Premises. The Delegated Officer determined that the crushing of spodumene is not described by Categories 8 or 44 as listed in Table 1; but instead is described by Category 70 as shown in Table 2 because:

- spodumene is a material extracted from the ground;
- the spodumene will be crushed and sized; and
- the crushing will occur at a production capacity more than 5,000 tpa but less than 50,000 tpa.

Therefore, the Delegated Officer determined that the licence should be amended to include Category 70.

Table 2: Prescribed premises category for proposed crushing of spodumene

Classification of Premises	Description	Production/design capacity ¹
Category 70	Screening etc. of material: premises on which material extracted from the ground is screened washed, crushed, ground, milled, sized or separated.	More than 5,000 but less than 50,000 tonnes per year

The Delegated Officer identified that the risk of emissions and discharges from the crushing of spodumene was limited to noise emissions from operating crushing equipment and point source emissions to air (particulates) from existing stacks.

In relation to noise, the spodumene is to be crushed within an enclosed building in existing equipment used to crush fused materials. Crushing of spodumene is not expected to change the existing noise profile of the Premises.

With respect to point source particulate emissions to air, the Delegated Officer had regard to the controls on the Premises as imposed through the Existing Licence, including:

- crushing is required to occur within enclosed buildings;
- maintenance and operation of baghouse dust collection systems on the crushing circuits;
- emission limits on point source particulate emissions to air;
- alarm systems;
- troubleshooting and shutdown requirements;
- clean up of spilt materials to prevent airborne dust;
- provision of backup power systems to the baghouse dust collectors; and
- stack testing and reporting.

The crushing of spodumene in the equipment currently used for other materials is not expected to change the risk of emissions to air. The Delegated Officer was satisfied that the conditions on the Existing Licence were adequate to control the risk.

The Delegated Officer has inserted a new condition in the licence so that it is clear which materials not produced on site can be accepted and the processes that they can be subjected to.

Amendment History

Table 3 provides the amendment history for L5908/1990/11.

Table 3: Licence amendments

Instrument	Issued	Amendment
L5908/1990/11	29/09/2016	Amendment Notice 1 DER initiated amendment to correct occupier details and include Annual Audit Compliance Report requirement.
L5908/1990/11	10/05/2017	Amendment Notice 2 Licence Holder initiated amendment for proposal to crush spodumene.

Licence Holder's Comments

The Licence Holder was provided with the draft Amendment Notice on 28 April 2017. The Licence Holder responded on 8 May 2017 confirming that the material and process in Table 1 of condition G3 are correct, and waived the consultation period.

Amendment

1. The 'CLASSIFICATION OF PREMISES' listed on the licence is amended by the insertion of the red text shown in underline below:

Category 8: Mineral sands mining and processing

Category 44: Metal smelting and refining

Category 70: Screening etc. of material

2. The licence is amended by the insertion of the following condition G3:

G3 The licensee shall ensure that materials accepted onto the premises listed in column 1 of Table 1 are only subjected to the processes listed in column 2 of Table 1.

Table 1: Material acceptance and processing

Column 1	Column 2
Material	Process
Spodumene	Grading, crushing and sizing

Appendix 1: Key Documents

	Document Title	In text ref	Availability
1	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	N/A	accessed at http://www.der.wa.gov.au
2	DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.		
3	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.		
4	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.		
5	Licence L5908/1990/11 – Doral Fused Materials Pty Ltd	Existing Licence	