



<b>Licence Number</b>	W4661/2010/1
<b>Works Approval Holder</b>	Alcoa of Australia Limited (ACN) 004 879 298
<b>Registered business address</b>	181-205 Davy Street BOORAGOON WA 6154
<b>Date of amendment</b>	23 June 2016
<b>Prescribed Premises</b>	Category 46 – Bauxite refinery Category 52 – Electric power generation Category 64 – Class II or III putrescible landfill site Category 67 – Fuel burning
<b>Premises</b>	Pinjarra Refinery Lot 19 on Diagram 44739, Part of Lot 109 on Diagram 60089, Part of Lot 151 on Plan 10914, Lot 221 on Plan 302638, Lot 222 on Plan 302638, Part of Lot 251 on Plan 35963 and Lot 252 on Plan 35963 Southwest Hwy OAKLEY WA 6208

## Amendment

The Department of Environment Regulation (DER) has amended the above works approval in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice.

**Jonathan Bailes**

**Manager Licensing (Process Industries)**

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

## Amendment Notice

This Notice is issued under section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the works approval 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.

## Amendment Description

This Amendment Notice is the result of a works approval amendment application from Alcoa of Australia Limited (Alcoa) requesting a four-month extension of the duration of Works Approval W4661/2010/1. The application was received by the Department of Environment Regulation (DER) on 9 June 2016.

## Decision

Works Approval W4661/2010/1 was granted to Alcoa on 25 June 2010 to convert Residue Storage Area 1 (RSA1), which also functions as a cooling pond, to a 'dry stacked' RSA at the Pinjarra Refinery. The conversion process was scheduled in two phases:

1. Conversion of the northern area (RSA1N) by using a dyke to separate it from the southern area (RSA1S), which will continue to operate as a cooling pond; and
2. Conversion of RSA1S by the subsequent to transfer of water to a new cooling pond (constructed under Works Approval W4568/2009/1) and sufficient consolidation of the residue.

Conversion of RSA1N has been completed and is operational; however, Alcoa determined that RSA1S could not be converted as per the methodology approved in Works Approval W4661/2010/1 or by the expiry date of 27 June 2015. Therefore, Alcoa requested an extension of the works approval duration to allow them to complete a review of the project design, methodology, and schedule.

Groundwater contamination was identified in the original works approval assessment as the key risk to be managed during the works. Alcoa proposed to implement infrastructure controls including the installation of synthetic liners and underdrains, wick drains, sub-liner drains, and de-liquoring bores to reduce potential risk to groundwater. The delay in converting RSA1S has resulted in a delay to the installation of de-liquoring bores in the operational RSA1N. Therefore, as part of the review of the RSA1S conversion, Alcoa are reassessing the groundwater risk and controls.

Given the above impact on the groundwater controls, DER granted a works approval extension of 12 months until 27 June 2016. Alcoa has requested a further four-month extension to allow them to complete the RSA1S review and reassessment of groundwater risk.

## Amendment History

Instrument	Issued	Amendment
W4661/2010/1	25/06/2015	Works approval amendment to extend the duration to 27 June 2016
W4661/2010/1	23/06/2016	Amendment Notice 1 Works approval amendment to extend the duration to 27 December 2016

## Amendments

1. The works approval duration has been extended from *27 June 2016* to *27 December 2016*.