



# Decision Document

## Environmental Protection Act 1986, Part V

**Proponent:** Alcoa of Australia Limited

**Licence:** L5245/1967/14

**Registered office:** Levels 3 and 4  
181-205 Davy Street  
BOORAGOON WA 6154

**ACN:** ACN: 004 879 298

**Premises address:** Kwinana Alumina Refinery  
Public Transport Authority Lease No. 2641 (MTL Pipeline), and  
Easement No. 3134B/996 on Crown Reserve 24901 (Jetty Easement),  
and as listed in the following table:

Description	Lot	Plan/Diagram	Road	Locality	Volume	Folio
Refinery	102	18242	Sutton	Naval Base	1926	692
South West Refinery (DPI lease)	171	180286	Sutton	Naval Base	3014	967
Tank Farm	99	17761	Rockingham	Naval Base	2197	590
RSAs A&B	51	20582	Anketell	Postans	2073	722
RSA C	Part 304	72808	Thomas	Kwinana	1795	919
RSAs F,H,J,K,L&N	Part 501	72707	Anketell	Hope Valley	2831	396
Cooling Ponds	200	61086	Anketell	Postans	1592	839
Pump Station No. 3	164	17409	Rockingham	Naval Base	1942	945
MTL Pipeline (Landcorp Lease)	114	29392	Anketell	Postans	2602	975
North of MTL pipeline	113	20587	Anketell	POSTANS	2071	61
MTL pipeline (DPI lease)	214	18462	Anketell	Postans	LR3121	872
MTL pipeline (Bayardo Pty Ltd Lease)	115	48295	Anketell	Postans	2602	976



**Issue date:** Thursday, 28 August 2014

**Commencement date:** Wednesday, 3 September 2014

**Expiry date:** Friday, 2 September 2016

### **Decision**

Based on the assessment detailed in this document the Department of Environment Regulation (DER) has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by:

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Decision Document authorised by:

Cristina Angel  
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## 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

### Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

#### Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1, 5.1.2 and 5.3.1.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

#### Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions as a result of this application is justified in Section 4 of this document.

#### Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



## 2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/> New Licence <input checked="" type="checkbox"/> Licence amendment <input type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	<b>Category number(s)</b>	<b>Assessed design capacity</b>
	5	Greater than 50,000 tonnes per year
	46	Greater than 1,000,000 tonnes per year
	52	Greater than 20 megawatts
	58	100 tonnes or more per day
	64	20 tonnes or more per day
67	Greater than 500 kilograms or more per hour	
Application verified	Date: 27/05/2014	
Application fee paid	Date: 10/06/2014	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome	N/A	
Is the proposal a Major Resource Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 678 EPA Report No: 1163
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999	
Is the Premises subject to any EPP requirements?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Site is subject to SO <sub>2</sub> requirements of Kwinana EPP.	



### 3 Executive summary of proposal and assessment

Alcoa of Australia Limited holds several licences throughout the State. The Kwinana Alumina Refinery is located in the Kwinana Industrial area and is subject to the Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999 and *Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992*.

The premises has been operational since July 1963 with the main premises activity being. The premises is licensed for the following prescribed premises categories, with bauxite refining being the main activity:

- Category 5: Processing or beneficiation of metallic or non-metallic ore
- Category 46: Bauxite Refining
- Category 52: Electric power generation
- Category 58: Bulk material loading or unloading
- Category 64: Class II or III putrescible landfill site
- Category 67: Fuel Burning

The nearest residents are located adjacent to the Residue Storage Areas however they are located over 3km from the Refinery. The main emissions from the premises are dust, odour, noise and point source air emissions. Current licence conditions are sufficient at managing these emissions.

Given the complexity of the premises operations, and a REFIRE template being developed for the Alcoa licences, this licence has not been converted into the REFIRE format during this re-issue. The conversion will be implemented when the daughter REFIRE template is available. Minor changes to wording of definitions have been included to reflect the wording within the current licence template.

Minor changes to conditions have also occurred to reflect the changes to definitions as well as removing condition W2(a) from the licence which related to conducting a baseline vegetation survey. The survey has been completed and submitted to DER so there was no further requirement to have this condition on the licence. Other conditions which referred to condition W2(a) have been slightly amended to remove reference to this condition.



#### 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

##### DECISION TABLE

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Licence Duration	N/A	N/A	This premises is a standard licence re-issue with only minor changes made. Some definitions in the licence have been amended to reflect wording in the latest licence template and some conditions have been amended to reflect the current licence templates and to remove references to any conditions that have been completed under the previous licence (i.e. condition W2(a)). The overall risk of the premises is medium - high therefore it is recommended that the licence be issued for a period of 2 years.	



## 5. Risk Assessment

*Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management*

**Table 1: Emissions Risk Matrix**

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High

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