



Licence Number L4503/1975/14

Licence Holder BHP Billiton Iron Ore Pty Ltd

ACN 088 700 981

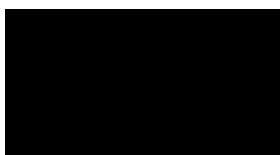
File Number: DER2013/000901

Premises Mt Whaleback/Orebody 29/30/35
Tenements E52/2009-1, ML244SA, G52/19-G52/27,
G52/276, G52/277, G52/279; and Special Leases
K858923 and N088235

Date of Amendment 6/11/2017

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* (EP Act) 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.



Alana Kidd

Manager Licensing – Resource 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.

This notice is limited only to an amendment for Category 73. No changes to the aspects of the original licence relating to Category 5, 6, 54, 61 and 64 activities have been requested by the Licensee.

The following DER Guidance Statements have informed the decision made on this amendment.

- *Guidance Statement: Regulatory Principles* (July 2015);
- *Guidance Statement: Setting Conditions* (October 2015);
- *Guidance Statement: Decision Making* (February 2017);
- *Guidance Statement: Risk Assessment* (February 2017); and
- *Guidance Statement: Environmental Siting* (November 2016).

Amendment description

On 4 September 2017, BHP Billiton Iron Ore Pty Ltd (Licensee) submitted an application to DER under section 59B of the EP Act for an amendment to the Mt Whaleback/Orebody 29/30/35 licence (L4503/1975/14).

The Licensee has applied to make the following changes:

1. Installation, commission and operation of a new 200kL mobile self-bunded reticulated diesel tank at the Mount Whaleback (mine) Maintenance Workshop (MEW) adjacent to existing tank farm fuel bullets; and
2. Increase of Category 73 throughput by 1,051 m³ (from 11,749m³ to 13,000 m³) to allow for potential future bulk chemical storage options.

Table 1 below outlines the proposed changes to the Licence.

Table 1: Proposed throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
73	11, 749 cubic metres	13, 000 cubic metres	To allow for additional hydrocarbons to be stored at the premises without triggering the need for a licence amendment, as the management measures for the new hydrocarbon facilities will remain consistent with the existing licence

There is no amendment proposed to the location of existing infrastructure within Schedule 1: Maps (Premises map or Map of emission points) as a result of this amendment.

The new fuel facility will be facility will be used for refueling both haul and service trucks in the area.

Other approvals

The Licensee has provided the following information relating to other approvals as outlined in Table 2.

Table 2: Relevant approval

Legislation	Number	Approval
<i>Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007.</i>	Dangerous Goods Licence (DGS0153988)	This approval is administered by the Department of Mines, Industry regulation and Safety (DMIRS) for the purpose of licensing the containment facilities.

Amendment history

Table 3 provides the amendment history for L4503/1975/14.

Table 3: Licence amendments

Instrument	Issued	Amendment
L4503/1975/13	22/12/2011	Licence amendment to increase capacity of Category 5 to 58 million tonnes per annum, change premises boundary and include Category 61 to the Licence
L4503/1975/13	16/02/2012	Licence amendment to include Category 85B constructed under W4972/2011/1
L4503/1975/13	7/11/2012	Licence amendment to incorporate three additional water treatment cells to the existing Newman temporary water treatment plant
L4503/1975/14	9/10/2014	Licence amendment to include additional discharge points and convert to new format
L4503/1975/14	11/06/2015	Licence amendment to include two inert landfills, oily water separator, treated wastewater evaporation pond and contingency discharge point, extension of the hydrodynamic trial timeframe and disposal of used conveyor belts
L4503/1975/14	28/04/2016	Licence amendment to extend the duration of the hydrodynamic trial
L4503/1975/14	30/06/2016	Licence amendment to include Category 6, increase Category 73 approved design capacity, contingency discharge of Reverse Osmosis (RO) reject water to Ophthalmia Dam, increase in RO reject water discharge to Acid Mine Drainage (AMD) facility, remove wastewater treatment plants less than 20 cubic metres per day capacity and updates to monitoring requirements
L4503/1975/14	1/09/2016	Licence amendment to update the premises address and include a new asbestos disposal location
L4503/1975/14	21/04/2017	Amendment Notice 1 Licence amendment to remove Category 85B, increase capacity for Category 61 and change premises boundary
L4503/1975/14	06/11/2017	Amendment Notice 2 (this amendment) Licence amendment to increase capacity for Category 73

Risk assessment

Tables 4 and 5 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Both tables identify whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Table 4: Risk assessment for proposed amendments during construction

Source/Activities		Risk Event					Reasoning
		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts	Consequence rating	
<p>Cat 73 Bulk storage of chemicals etc.: premises on which acids, alkalis or chemicals that.. are stored</p>	<p>Installation and first – fill of diesel tank(s)</p>	<p>Hydrocarbons</p>	<p>Nil. The Waste Oil Storage Area - MEW area is located in the centre of an active mine site and there are no nearby sensitive receptors</p>	<p>Land: Seepage of hydrocarbons</p>	<p>Adverse impacts to the health and survival of vegetation</p>	<p>N/A</p>	<p>The bulk storage and management of the diesel tanks and other chemical storage will be conducted in accordance with Dangerous Goods Licence (DGS 0153988). There are no sensitive receptors surrounding the proposed installation location (Waste Oil Storage Area - MEW) and the area is a 'working area' and devoid of vegetation. The installation of the mobile self banded reticulated diesel tank will involve the delivery and connection of the tank (the tank is pre-fabricated to AS1940 standards off-site). Connection will involve the attachment of pipework to enable dispense of diesel. No risk to the environment is anticipated from the installation of the diesel tank.</p>
	<p>Future installation of bulk chemical storage options</p>	<p>Hydrocarbons, bulk chemicals</p>				<p>N/A</p>	<p>The bulk storage and management of the other chemical storage will be conducted in accordance with Dangerous Goods Licence (DGS 0153988). There are no sensitive receptors surrounding the proposed installation location (Waste Oil Storage Area - MEW) and the area is a 'working area' and devoid of vegetation. Storage of bulk chemical and</p>

Table 5: Risk assessment for proposed amendments during operation

Source/Activities		Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning
		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts					
Cat 73 Bulk storage of chemicals etc.:	Storage, dispense and spill of diesel	Hydrocarbons	Nil. The Waste Oil Storage Area - MEW area is located in the centre of an active mine site and there are no nearby sensitive receptors	Land: Seepage of hydrocarbons	Adverse impacts to the health and survival of vegetation	Slight	Unlikely	Low	<p>Commitments have been made by BHP in applications and subsequent Decision Documentation (eg: June 2015: L4503/21975/14 amendment) for the management of surface water flow, on-site spill management and hydrocarbon treatment at the MEW area Oil Water Separator (OWS).</p> <p>The applicant has committed to:</p> <ul style="list-style-type: none"> • Capturing locally and directing surface water flow from the refueling facility to the workshop area OWS; • Treating wastewater from the MEW area through the OWS to achieve a TRH concentration of less than 15 mg/L; • Discharging the treated wastewater to a lined evaporation pond; • Collecting potentially contaminated slurry from the sediment sumps for remediation at the onsite bioremediation facility; • Utilizing the emergency contingency overflow at the evaporation pond, 	

Risk Event		Consequence rating	Likelihood rating	Risk	Reasoning
					<p>limiting uncontrolled discharge;</p> <ul style="list-style-type: none"> Conducting quarterly TRH sampling; and sampling volumetric flow rates and TRH concentration during contingency discharge events (Required under condition 3.5.1 of this licence). <p>The management commitments and existing licence requirements are deemed appropriate to manage the risk of hydrocarbon storage and spills on the environment and around the Waste Oil Storage Area - MEW.</p> <p>As such, the Delegated Officer considers the onsite impact to be minimal, resulting in a consequence of slight and the likelihood, unlikely. Therefore, the risk has been deemed as low.</p>

Decision

The Delegated Officer considers the existing L4503/1975/14 conditions and associated hydrocarbon management commitments by BHP to be adequate to manage the risks associated with the installation and operation of the new 200kL capacity diesel storage tank and increase of Category 73 throughput to 13,000m³.

Licensee comments

The Licence Holder was provided with the draft Amendment Notice on 23 October 2017. No additional comments were received from the Licence Holder in relation the draft of this amendment notice.

Amendment

1. Page 1 of the licence is amended by the deletion of the text shown in strikethrough and insertion of the bold text shown in underline below:

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
5	<i>Processing or beneficiation of metallic or non-metallic ore</i>	<i>50 000 tonnes or more per year</i>	<i>80 000 000 tonnes per annual period</i>
6	<i>Mine dewatering</i>	<i>50,000 tonnes or more per year</i>	<i>80 000 000 tonnes per annual period</i>
54	<i>Sewage facility</i>	<i>100 cubic metres or more per day</i>	<i>183.2 cubic metres per day</i>
61	<i>Liquid waste facility</i>	<i>100 tonnes or more per year</i>	<i>9,348,600 tonnes per annual period</i>
64	<i>Class II putrescible landfill site</i>	<i>20 tonnes or more per year</i>	<i>6 000 tonnes per annual period</i>
73	<i>Bulk storage of chemicals, etc.</i>	<i>1 000 cubic metres in aggregate</i>	<i>11 749 <u>13,000</u> cubic metres</i>

2. Page 4 (Premises Description and Licence Summary) of the licence is amended by the deletion of the text shown in strikethrough below and insertion of the bold text shown in underline below:

*Bulk fuel storage facility on site ~~consists of 3 steel vertical tanks which have~~ has the capacity to store up to 11,749 13,000 cubic metres of fuel. ~~The facility Fuel storage is compliant with Australian standards,~~ **is approved under Dangerous Goods Licence (DGS 0153988)**. Storage tanks are fitted with high level alarms.*

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L4503/1975/14 – Mt Whaleback/Orebody 29/30/35 Includes Amendment Notice 1, dated 21 April 2017	L4503/1975/14	accessed at www.dwer.wa.gov.au
2	DER, July 2015. Guidance Statement: Regulatory principles. Department of Environment Regulation, Perth.	DER 2015a	accessed at www.dwer.wa.gov.au
3	DER, October 2015. Guidance Statement: Setting conditions. Department of Environment Regulation, Perth.	DER 2015b	accessed at www.dwer.wa.gov.au
4	DER, February 2017. Guidance Statement: Risk Assessments. Department of Environment Regulation, Perth.	DER 2017a	accessed at www.dwer.wa.gov.au
5	DER, February 2017. Guidance Statement: Decision Making. Department of Environment Regulation, Perth.	DER 2017b	accessed at www.dwer.wa.gov.au
6	L4503/1975/14 amendment issued 11/06/2015. Partial Decision Document	-	DWER records (A895708)
7	Email 'RE: Application to amend L4503/1975/14 - Whaleback Licence, request for additional information'	-	DWER records (A1531404)
8	Email: 'RE: APPLICANT NOTIFICATION - L4503/1975/14 - NOTICE OF PROPOSED AMENDMENT TO LICENCE – Notification Waiver 25 Oct 2017'		DWER records (A1547605)