# Attachment 1 Statutory Requirements

This Attachment outlines relevant statutory and guideline requirements and provides the relevant section of the Extraction Plan where the requirements are addressed. This Attachment considers the statutory instruments and guidelines in Table A1-1.

#### Table A1-1: Relevant Statutory Instruments and Guidelines

Statutory Instrument or Guideline	Attachment 1 Reference
Stage 2 Project Approval (08_0135)	Table A1-2
Mining Lease Conditions (ML 1605, ML 1606, ML 1628, ML 1691 and ML 1715)	Table A1-3

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Condition Number		Condition	Document Reference/Comment
Performance N	Aeasures – Natural and Heritage Features		-
Condition 1, Schedule 4	The Proponent shall ensure that the properformance measures in Table 18, to the	oject does not cause any exceedances of the satisfaction of the Secretary.	This Extraction Plan has been developed to meet the subsidence impact performance measures.
	Table 18: Subsidence Impact Performance	Measures	
	Water Resources		Section 3.1 and Appendix A.
	Drainage Lines (DL1 – DL7)	No greater subsidence impacts or environmental consequences than predicted in the EA	
	Land		Section 3.1 and Appendix B.
	Cliffs C7, C9 and C10	Negligible environmental consequences (that is occasional rockfalls, displacement or dislodgement of boulders or slabs or fracturing, that in total do not impact more than 0.5% of the total face of such cliffs within any longwall mining domain)	
	Other cliffs       No greater subsidence impacts or environmental consequences than predicted in the EA         Minor cliffs       Minor environmental consequences (that is, occasional rockfalls, displacement of or dislodgment of boulders or slabs, or fracturing, that in total do not impact more than 5% of the total face area of each such type of feature within any longwall mining domain)         Biodiversity       Biodiversity		
			Section 3.1 and Appendix C.
	Threatened species, threatened populations, or endangered ecological communities	Negligible subsidence impacts or environmental consequences	

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Condition Number		Condition	Document Reference/Comment
Performance N	leasures – Natural and Heritage Land (Conti	nued)	
Condition 1,	Heritage Sites		Section 3.1 and Appendix D.
Schedule 4 (Cont.)	Aboriginal heritage site S2MC 236 (AHIMS No.s 36-3-0016 and 36-3-0134)	Negligible subsidence impacts or environmental consequences	
	Historic heritage sites	No greater subsidence impacts or environmental consequences than predicted in the EA	
	Mine workings		Section 1.6.
	First workings under an approved Extraction Plan beneath any feature where performance measures in this table require negligible subsidence impacts or negligible environmental consequences	To remain long-term stable and non-subsiding	
	Second workings	To be carried out only in accordance with an approved Extraction Plan	
Offsets			
Condition 2, Schedule 4	(a) it is not reasonable or feasible to ren	measures in Table 18 and the Secretary determines that: nediate the impact or environmental consequence; or	Section 4.
	(b) remediation measures implemented the impact or environmental conseq	l by the Proponent have failed to satisfactorily remediate uence;	-
	then the Proponent shall provide a suit environmental consequence, to the satisfa	able offset to compensate for the impact or ction of the Secretary.	

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Condition Number		Condition	Document Reference/Comment
Performance N	leasures – Built Features		
Condition 3, Schedule 4	The Proponent shall ensure that the propertormance measures in Table 19, to the state of the sta	·	This Extraction Plan has been developed to meet the subsidence impact performance measures.
	Key public infrastructure:		Section 3.2 and Appendix E.
	Gulgong-Sandy Hollow Railway Line Always safe and serviceable.		
	Ulan-Wollar Road	Damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired.	
	Other infrastructure:		Section 3.2 and Appendix E.
	Murragamba Road	Always safe.	
	Low voltage electricity power line	Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated.	
		Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.	
	Telecommunication cableServiceability should be maintained wherever practicable. Loss of serviceability must be fully compensated.		
	Murragamba Trig Station	Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.	
	Other built features and improvements, including fences       Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated.         Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.		
	Public Safety		Section 3.2 and Appendix F.
	Public safety	Negligible additional risk	

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Table A1-2 (Continued): Project Approval (08_0135) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Performance N	easures – Built Features (Continued)	-
Condition 4, Schedule 4	Any dispute between the Proponent and the owner of any built feature over the interpretation, application or implementation of the performance measures in Table 19 is to be settled by the Secretary, following consultation with the Secretary Industry. Any decision by the Secretary shall be final and not subject to further dispute resolution under this approval.	All built features are to be managed in accordance with Section 3.2 and the Appendix E.
Extraction Plan		
Condition 5, Schedule 4	The Proponent shall prepare and implement an Extraction Plan for all second workings on site to the satisfaction of the Secretary. Each extraction plan must:	
	<ul> <li>(a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;</li> </ul>	Section 1.2 and Attachment 2.
	(b) be approved by the Secretary before the Proponent carries out any of the second workings covered by the plan;	This application.
	<ul> <li>(c) include detailed plans of existing and proposed first and second workings and any associated surface development;</li> </ul>	Section 1.4.
	<ul> <li>(d) include detailed performance indicators for each of the performance measures in Tables 18 and 19;</li> </ul>	Section 3 and Appendices A to F.
	<ul> <li>(e) provide revised predictions of the potential subsidence effects, subsidence impacts and environmental consequences of the proposed second workings, incorporating any relevant information obtained since this approval;</li> </ul>	Section 2.1 and Technical Reports 1 to 5.
	<ul> <li>describe the measures that would be implemented to ensure compliance with the performance measures in Tables 18 and 19, and manage or remediate any impacts and/or environmental consequences;</li> </ul>	Section 3 and Appendices A to G.

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Condition Number	Condition	Document Reference/Comment
Extraction Plan	(Continued)	
Condition 5, Schedule 4 (Cont.)	(g) include a Built Features Management Plan, which has been prepared in consultation with DRG and the owners of affected public infrastructure, to manage the potential subsidence impacts and/or environmental consequences of the proposed second workings, and which:	Section 3.2 and Appendix E.
	<ul> <li>addresses in appropriate detail all items of key public infrastructure and other public infrastructure and all classes of other built features;</li> </ul>	
	<ul> <li>has been prepared following appropriate consultation with the owner/s of potentially affected feature/s;</li> </ul>	
	<ul> <li>recommends appropriate remedial measures and includes commitments to mitigate, repair, replace or compensate all predicted impacts on potentially affected built feature in a timely manner; and</li> </ul>	5
	<ul> <li>in the case of all key public infrastructure, and other public infrastructure except roads, trails and associated structures, reports external auditing for compliance with ISO 31000 (or alternative standard agreed with the infrastructure owner) and provides for annual auditing of compliance and effectiveness during extraction of longwalls which may impa the infrastructure;</li> </ul>	
	(h) include a Water Management Plan, which has been prepared in consultation with EPA and Dol Lands and Water, which provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on watercourses and aquifers, including:	Section 3.1 and Appendix A.
	<ul> <li>surface and groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse impacts on water resources or water quality;</li> </ul>	
	<ul> <li>a program to monitor and report stream flows, assess any changes resulting from subsidence impacts and remediate and improve stream stability;</li> </ul>	
	<ul> <li>a program to monitor and report groundwater inflows to underground workings;</li> </ul>	
	<ul> <li>a program to predict, manage and monitor impacts on groundwater bores on privately-owned land;</li> </ul>	

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Condition Number		Condition	Document Reference/Comment
Extraction Plan	(Cont	inued)	
Condition 5, Schedule 4 (Cont.)		<ul> <li>a program to:         <ul> <li>confirm the location and saturated extent of the palaeochannel adjacent to the extents of underground 1 second workings, including drilling of additional investigation bores;</li> <li>validate, and if necessary revise, the groundwater model for the palaeochannel; and</li> <li>monitor and report on the groundwater impacts of underground 1 second workings on the palaeochannel; and a program to monitor and report on the predicted groundwater impacts on the palaeochannel adjacent to underground 1 boundary; and</li> </ul> </li> </ul>	Appendix A.
	(i)	include a Biodiversity Management Plan, which has been prepared in consultation with OEH, which provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on aquatic and terrestrial flora and fauna, with a specific focus on threatened species, populations and their habitats; endangered ecological communities; and water dependent ecosystems;	Section 3.1 and Appendix C.
	(j)	include a Land Management Plan, which has been prepared in consultation with any affected public authorities, to manage the potential impacts and/or environmental consequences of the proposed second workings on land in general;	Section 3.1 and Appendix B.
	(k)	include a Heritage Management Plan, which has been prepared in consultation with OEH and relevant stakeholders for both Aboriginal and historic heritage, to manage the potential environmental consequences of the proposed second workings on both Aboriginal and non- Aboriginal heritage items, and reflects all requirements under conditions 41-46 of Schedule 3;	Section 3.1 and Appendix D.
	(I)	include a Public Safety Management Plan, which has been prepared in consultation with DRG, to ensure public safety in the mining area;	Section 3.1 and Appendix F.

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Condition Number	Condition	Document Reference/Comment
Extraction Plan	(Continued)	
Condition 5, Schedule 4	<ul> <li>(m) include a Subsidence Monitoring Program, which has been prepared in consultation with DRG, to:</li> </ul>	Section 3.4 and Appendix G.
(Cont.)	<ul> <li>describe the on-going subsidence monitoring program;</li> </ul>	
	<ul> <li>provide data to assist with the management of the risks associated with subsidence;</li> </ul>	
	validate the subsidence predictions;	
	<ul> <li>analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan and any ensuing environmental consequences; and</li> </ul>	
	<ul> <li>inform the contingency plan and adaptive management process;</li> </ul>	
	<ul> <li>include a contingency plan that expressly provides for adaptive management where monitoring indicates that there has been an exceedance of any performance measure in Tables 18 and 19, or where any such exceedance appears likely;</li> </ul>	Sections 4.1 and 4.2 and Appendices A to F.
	<ul> <li>proposes appropriate revisions to the Rehabilitation Management Plan required under condition 56 of Schedule 3; and</li> </ul>	Sections 3.3 and 4.5.
	(p) include a program to collect sufficient baseline data for future Extraction Plans.	Attachment 3.
Condition 6, Schedule 4	The Proponent shall ensure that the management plans required under conditions 5(g)-(I) above include:	Appendices A to F.
	<ul> <li>(a) an assessment of the potential environmental consequences of the Extraction Plan, incorporating any relevant information that has been obtained since this approval; and</li> </ul>	
	(b) a detailed description of the measures that would be implemented to remediate predicted impacts.	

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Table A1-2 (Continued): Project Approval (08_0135) Requirements Relating to the Extraction Plan
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Condition Number	Condition	Document Reference/Comment
First Workings		
Condition 7, Schedule 4	The Proponent may carry out first workings on site other than in accordance with an approved Extraction Plan, provided that DRG is satisfied that the first workings are designed to remain long-term stable and non-subsiding, except insofar as they may be impacted by approved second workings.	Confirmation from the Division of Resources and Energy was provided on 24 March 2016, 31 August 2018 and 8 July 2019 that the proposed first workings satisfied the requirements of Condition 7, Schedule 4 of Project Approval (08_0135).
Second Working	gs Under Palaeochannel	
Condition 7A, Schedule 4	The Proponent shall ensure that the longwall panels of the project do not underlie any saturated section of the palaeochannel in the vicinity of Wilpinjong Creek, unless it has demonstrated that it has obtained the necessary water licences, to the satisfaction of the Secretary.	Appendix A.
Payment of Rea	sonable Costs	
Condition 8, Schedule 4	The Proponent shall pay all reasonable costs incurred by the department to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of an Extraction Plan.	If required, MCO will pay all reasonable costs incurred by DPIE to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of the Extraction Plan.
Gas Drainage		
Condition 9, Schedule 4	The Proponent shall implement all reasonable and feasible measures to minimise the greenhouse gas emissions from the underground mining operations to the satisfaction of the Secretary.	MCO will manage greenhouse gas emissions from the UG1 Underground Mine in accordance with the approved Greenhouse Gas Minimisation Plan.
Condition 10, Schedule 4	Prior to carrying out underground mining operations, the Proponent shall submit an updated Greenhouse Gas Minimisation Plan to the Secretary. This plan must:	In March 2016, MCO submitted an updated Greenhouse Gas Minimisation Plan to DP&E (now DPIE). The Greenhouse Gas
	<ul> <li>identify options for minimising greenhouse gas emissions from underground mining operations, with a particular focus on capturing and/or using these emissions;</li> </ul>	Minimisation Plan was approved by DPIE in March 2016.
	(b) investigate the feasibility of implementing each option;	
	(c) propose the measures that would be implemented in the short to medium term on site; and	
	(d) include a research program to inform the continuous improvement of the greenhouse gas minimisation measures on site.	

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### Table A1-3: Mining Lease Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Mining Lease	1605 and 1606	
7	Rehabilitation	
	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director- General.	Section 3.3 and 4.5.
8 (amended)	(b) The lease holder must not undertake any underground mining operations that may cause subsidence except in accordance with an approved Extraction Plan.	This Extraction Plan.
	(c) The lease holder must ensure that the approved Extraction Plan provides for the effective management of risks associated with any subsidence resulting from mining operations carried out under this lease.	Section 2.2 and Appendices A to F.
	(d) The lease holder must notify the Secretary within 48 hours of any:	Section 4.3.
	(i) incident caused by subsidence which has a potential to expose any person to health and safety risks;	
	<ul> <li>(ii) significant deviation from the predicted nature, magnitude, distribution, timing and duration of subsidence effects, and of the potential impacts and consequences of those deviations on built features and the health and safety of any person; or</li> </ul>	
	(iii) significant failure or malfunction of a monitoring device or risk control measure set out in the approved Extraction Plan addressing:	
	A. built features;	
	B. public safety; or	
	C. subsidence monitoring.	
16	Safety	
	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Appendix F.

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### Table A1-3 (Continued): Mining Lease Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Mining Lease	1605 and 1606 (Continued)	
18	Prevention of Soil Erosion and Pollution	
	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Appendices A and B.
19	Transmission lines, Communication Lines and Pipelines	
	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Appendix E.
22	Roads and Tracks	
	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Climate Change and Environment.	Appendices B and E.
Mining Lease	1628	
7	Rehabilitation	
	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director- General.	Section 3.3 and 4.5.
8 (amended)	(b) The lease holder must not undertake any underground mining operations that may cause subsidence except in accordance with an approved Extraction Plan.	This Extraction Plan.
	(c) The lease holder must ensure that the approved Extraction Plan provides for the effective management of risks associated with any subsidence resulting from mining operations carried out under this lease.	Section 2.2 and Appendices A to F.

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Condition Number		Condition	Document Reference/Comment
Mining Lease	1628 (Cont	tinued)	
8 (amended) (Cont.)	.,	lease holder must notify the Secretary within 48 hours of any:	Section 4.3.
	(i) (ii)	incident caused by subsidence which has a potential to expose any person to health and safety risks; significant deviation from the predicted nature, magnitude, distribution, timing and duration of	
		subsidence effects, and of the potential impacts and consequences of those deviations on built features and the health and safety of any person; or	
	(iii)	significant failure or malfunction of a monitoring device or risk control measure set out in the approved Extraction Plan addressing:	
		A. built features;	
		B. public safety; or	
		C. subsidence monitoring.	
16	Safety		
	operation Director-G excavation	s must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the s. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the seneral, to ensure that access to them by persons and stock is restricted. Abandoned shafts and ns opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard e to the Director-General.	Appendix F.
18	Preventio	n of Soil Erosion and Pollution	
	(including in accorda include an	s must be carried out in a manner that does not cause or aggravate air pollution, water pollution sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and once with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to by watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions the Director-General in this regard.	Appendices A and B.
19	Transmiss	ion lines, Communication Lines and Pipelines	
	pipeline o	s must not interfere with or impair the stability or efficiency of any transmission line, communication line, r any other utility on the lease area without the prior written approval of the Director-General and any conditions he may stipulate.	Appendix E.

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### Table A1-3 (Continued): Mining Lease Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Mining Lease	1628 (Continued)	
22	Roads and Tracks	
	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Environment and Climate Change.	Appendices B and E.
Mining Lease	1691	
7	Rehabilitation	
	Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director- General.	Sections 3.3 and 4.5.
8	(b) The lease holder must not undertake any underground mining operations that may cause subsidence except in accordance with an approved Extraction Plan.	This Extraction Plan.
	(c) The lease holder must ensure that the approved Extraction Plan provides for the effective management of risks associated with any subsidence resulting from mining operations carried out under this lease.	Section 2.2 and Appendices A to F.
	(d) The lease holder must notify the Secretary within 48 hours of any:	Section 4.3.
	(i) incident caused by subsidence which has a potential to expose any person to health and safety risks;	
	<ul> <li>(ii) significant deviation from the predicted nature, magnitude, distribution, timing and duration of subsidence effects, and of the potential impacts and consequences of those deviations on built features and the health and safety of any person; or</li> </ul>	
	<ul> <li>(iii) significant failure or malfunction of a monitoring device or risk control measure set out in the approved Extraction Plan addressing:</li> </ul>	
	A. built features;	
	B. public safety; or	
	C. subsidence monitoring.	

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Condition Number	Condition	Document Reference/Comment						
Mining Lease	Mining Lease 1691 (Continued)							
11	Safety							
	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Appendix F.						
13	<b>Transmission lines, Communication Lines and Pipelines</b> Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions stipulated.	Appendix E.						
Mining Lease	1715							
2	Rehabilitation							
	Any disturbance resulting from the activities carried out under this mining lease must be rehabilitated to the satisfaction of the Minister.	Sections 3.3 and 4.5.						

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### Table A1-3 (Continued): Mining Lease Requirements Relating to the Extraction Plan

Condition Number			Condition	Document Reference/Comment							
Mining Leas	ning Lease 1715 (Continued)										
6	(b)		lease holder must not undertake any underground mining operations that may cause subsidence except cordance with an approved Extraction Plan.	This Extraction Plan.							
	(c) The lease holder must ensure that the approved Extraction Plan provides for the effective management of risks associated with any subsidence resulting from mining operations carried out under this lease.			Section 2.2 and Appendices A to F.							
	(d)	The	lease holder must notify the Secretary within 48 hours of any:	Section 4.3.							
		(i)	incident caused by subsidence which has a potential to expose any person to health and safety risks;								
		(ii)	significant deviation from the predicted nature, magnitude, distribution, timing and duration of subsidence effects, and of the potential impacts and consequences of those deviations on built features and the health and safety of any person; or								
		(iii)	significant failure or malfunction of a monitoring device or risk control measure set out in the approved Extraction Plan addressing:								
			A. built features;								
			B. public safety; or								
			C. subsidence monitoring.								

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