



Planning

Major Projects Assessment
Mining & Industry Projects
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Mr Anthony Russo
Principal Advisor Project Approvals
Coal & Allied Operations Pty Limited
PO Box 315
SINGLETON NSW 2330

Our ref: S02/02690

Dear Mr Russo

**Hunter Valley Operations North –
Carrington West Wing Modification (DA 450-10-2003 MOD 3)
Director-General's Requirements**

The Department has received your application for the proposed Carrington West Wing Modification.

I have attached a copy of the Director-General's requirements for the modification. These requirements have been prepared in consultation with the Department of Industry and Investment (DII), Department of Environment, Climate Change and Water (DECCW), the NSW Office of Water (NOW) and Singleton Council, and are based on the information you have provided to date. I have also attached a copy of the agency comments for your information.

Please note that the Director-General may alter these requirements at any time.

If your proposal is likely to have a significant impact on matters of National Environmental Significance, it will require an approval under the Commonwealth *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act). This approval is in addition to any approvals required under NSW legislation. It is your responsibility to contact the Department of Environment, Water, Heritage and the Arts in Canberra (6274 1111 or <http://www.environment.gov.au>) to determine if the proposal requires an approval under the EPBC Act. The Commonwealth Government has accredited the NSW environmental assessment process, so if it is determined that an approval is required under the EPBC Act, please contact the Department immediately as supplementary Director-General's requirements may need to be issued.

I would appreciate it if you would contact the Department at least two weeks before you propose to submit your Environmental Assessment for the modification. This will enable the Department to:

- confirm the applicable fee (see Division 1A, Part 15 of the *Environmental Planning and Assessment Regulation 2000*); and
- determine the number of copies (hard-copy and CD-ROM) of the Environmental Assessment that will be required for exhibition purposes.

Once the Department receives the Environmental Assessment, the Department will review it in consultation with the relevant agencies to determine if it adequately addresses the Director-General's requirements, and may require you to revise it prior to public exhibition.

The Department is required to make all the relevant information associated with the modification publicly available on its website. Consequently, I would appreciate it if you would ensure that all the documents you subsequently submit to the Department are in a suitable format for the web, and arrange for an electronic version of the Environmental Assessment to be hosted on a suitable website during the exhibition period.

If you have any enquiries about these requirements, please contact Alison O'Reilly on 9228 6339 or alison.oreilly@planning.nsw.gov.au.

Yours sincerely

David Kitto 31/5/10

David Kitto
Director
Mining & Industry Projects
As delegate for the Director-General

Director-General's Requirements

Section 75W of the *Environmental Planning and Assessment Act 1979*

Application number	DA 450-10-2003 MOD 3
Modification	Modifying the Hunter Valley Operations North coal mine, involving: - expanding the existing Carrington Pit to the south west (Carrington West Wing), covering an area of approximately 142 hectares; - extracting approximately 17 million tonnes of run-of-mine coal from the Broonie, Bayswater, Piercefield and Vaux seams for a period of up to 5 years, using truck and shovel mining methods; - out-of-pit overburden emplacement on land immediately north of the proposal; - extending the approved Carrington Pit evaporative sink; - diverting a drainage line located across the pit extension; - constructing a levee and groundwater barrier wall; and - modifying the existing development consent boundary to include Carrington West Wing.
Location	Approximately 24 kilometres (km) north west of Singleton.
Proponent	Coal & Allied Operations Pty Limited.
Date of Issue	31 May 2010
General Requirements	The Environmental Assessment of the modification must include: - an executive summary; - a detailed description of: - historical operations on the site; - existing and approved mining operations/facilities, including any statutory approvals that apply to these operations/facilities; and - the existing environmental management and monitoring regime on site; - a detailed description of the modification, including the: - need for the modification; - alternatives considered, including a justification for the proposed mine plan/s and coal rejects disposal strategy on economic, social and environmental grounds; - likely interactions between existing and approved mining operations; - likely staging of the modification; and - plans of any proposed building works; - a risk assessment of the potential environmental impacts of the modification, identifying the key issues for further assessment; - a detailed assessment of the key issues specified below, and any other significant issues identified in the risk assessment (see above), which includes: - a description of the existing environment, using sufficient baseline data; - an assessment of the potential impacts of all stages of the modification, including any cumulative impacts associated with the concurrent operation of the modification with any other existing or approved mining or gas production operations in the region, taking into consideration any relevant policies, guidelines, plans and statutory provisions (see below); and - a description of the measures that would be implemented to avoid, minimise, mitigate and/or offset the potential impacts of the modification, including detailed contingency plans for managing any significant risks to the environment; - a statement of commitments, outlining all the proposed environmental management and monitoring measures; - a conclusion justifying the modification on economic, social and environmental grounds, taking into consideration whether the modification

	is consistent with the objects of the <i>Environmental Planning & Assessment Act 1979</i>; and a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.
Key Issues	Soil and Water – including: - a detailed assessment of the potential impacts of the modification, using appropriate quantitative modelling on: - the quantity and quality of both surface and ground water resources, with particular reference to the Hunter River, alluvial groundwater and the evaporative sink extension; - water users, both in the vicinity of and downstream of the modification; - the riparian and ecological values of the watercourses both on site and downstream of the proposal; - environmental flows; and - flooding; - a comparison of these impact predictions against those associated with the existing mine plan, including detailed explanations for any differences; - plans for the proposed diversion of the unnamed drainage line, including: - detailed design and completion criteria; - timeframes; and - a detailed assessment of the environmental, hydrogeological, hydrological and geomorphic considerations of the final alignments; and - a revised site water balance for the mine; Noise & Blasting – including: - a quantitative assessment of the potential construction and operational noise impacts, in conjunction with the cumulative noise impacts from other sources, including the surrounding mines and other operations at the mine; - noise modelling should be based on applicable meteorological and stability category temperature inversion conditions to be developed in consultation with DECCW; and - blasting impacts of the project on people, livestock, property and roads; Air Quality – including a detailed consideration of the potential construction and operational impacts on the local air shed, in conjunction with the cumulative air impacts from other sources, including the surrounding mines and other operations at the mine; Biodiversity – including: - accurate estimates of any vegetation clearing or other impacts; - an assessment of the potential impacts of the project on any terrestrial or aquatic threatened species or populations, their habitats, endangered ecological communities, riparian vegetation or groundwater dependent ecosystems; and - a description of the measures that would be implemented to maintain or improve the biodiversity values of the surrounding region in the medium to long term; Heritage – including the potential impacts of the project on Aboriginal and non-Aboriginal heritage; Greenhouse Gas – including: - a quantitative assessment of the potential scope 1, 2 and 3 greenhouse gas emissions of the project, and qualitative assessment of the potential impacts of these emissions on the environment; and - a detailed description of the measures that would be implemented to minimise, reuse, recycle and dispose of any waste produced on site to ensure that the project is energy efficient;

	• Visual – including a detailed description of the measures that would be implemented to minimise the potential visual impacts of the project; • Transport – including a detailed assessment of any potential impacts of the project on the safety and performance of the road network, including any potential impacts to Lemington Road; • Waste – including: ○ estimates of the quantity and nature of the potential waste streams of the project; and ○ a detailed description of the measures that would be implemented on site to ensure that the project is energy efficient; • Hazards – paying particular attention to public safety; • Socio & Economic – including: ○ an assessment of the potential impacts of the project on the local and regional community; and ○ a detailed assessment of the costs and benefits of the project as a whole, and whether it would result in a net benefit for the NSW community; and • Rehabilitation – including a description of the proposed rehabilitation strategy for the mine, taking into consideration and relevant strategic land use planning or resource management plans or policies, including: ○ the costs of rehabilitation, remediation and repair, including the diversion of the drainage line; ○ identifying post-mining land use options; ○ clearly defining project rehabilitation objectives; ○ outlining general rehabilitation methods and procedures; and ○ a conceptual final landform design.
References	While not exhaustive, the following attachment contains a list of guidelines, policies and plans that may be relevant to the environmental assessment of the modification.
Consultation	During the preparation of the Environmental Assessment, you should consult with the relevant local, State or Commonwealth government authorities, service providers, community groups or affected landowners. In particular you should consult with: • Department of Environment, Climate Change and Water; • Department of Industry and Investment; • NSW Office of Water; and • Singleton Shire Council. The consultation process, and the issues raised during this process, must be described in the Environmental Assessment.
Deemed refusal period	90 days

Policies, Guidelines & Plans

Aspect	Policy /Methodology
Risk Assessment	
	AS/NZS 4360:2004 Risk Management (Standards Australia)
	HB 203: 203:2006 Environmental Risk Management – Principles & Process (Standards Australia)
	Risk Management Handbook for the Mining Industry (DPI)
Soil and Water	
<i>Soil</i>	Rural Land Capability Mapping (DLWC)
	Agricultural Land Classification (DPI)
	Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC & NHMRC)
	National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPC)
	State Environmental Planning Policy No. 55 – Remediation of Land Managing Land Contamination – Planning Guidelines SEPP 55 – Remediation of Land (DOP)
<i>Surface Water</i>	Australian Drinking Water Guidelines 2004 (NWQMS)
	National Water Quality Management Strategy: Water quality management – an outline of the policies (ANZACC/ARMCANZ)
	National Water Quality Management Strategy: Policies and principles – a reference document (ANZACC/ARMCANZ)
	National Water Quality Management Strategy: Implementation Guidelines (ANZACC/ARMCANZ)
	National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Effluent Management (ARMCANZ/ANZECC)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Use of Reclaimed Water (ARMCANZ/ANZECC)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)
	State Water Management Outcomes Plan
	NSW Government Water Quality and River Flow Environmental Objectives (DECC)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC)
	Managing Urban Stormwater: Soils & Construction (Landcom)
	Managing Urban Stormwater: Treatment Techniques (DECC)
	Managing Urban Stormwater: Source Control (DECC)
	Floodplain Management Manual (DNR)
	Floodplain Risk Management Guideline (DEC)
	A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH)
	Technical Guidelines: Bunding & Spill Management (DECC)
	Environmental Guidelines: Use of Effluent by Irrigation
<i>Groundwater</i>	State Water Management Outcomes Plan
	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)
	NSW State Groundwater Policy Framework Document (DLWC)
	NSW State Groundwater Quality Protection Policy (DLWC)

	NSW State Groundwater Quantity Management Policy (DLWC) Draft
	NSW State Groundwater Dependent Ecosystems Policy (2002)
	Guidelines for Groundwater Protection in Australia (1995)
	Draft Guidelines for the Assessment & Management of Groundwater Contamination (DECC)
Flora & Fauna	
	Draft Guidelines for Threatened Species Assessment under Part 3A of the <i>Environmental Planning and Assessment Act 1979</i> (DEC)
	NSW Groundwater Dependent Ecosystem Policy (DLWC)
	Policy & Guidelines - Aquatic Habitat Management and Fish Conservation (NSW Fisheries)
	Policy & Guidelines - Fish Friendly Waterway Crossings (NSW Fisheries)
	State Environmental Planning Policy No. 44 – Koala Habitat Protection
	Draft Threatened Biodiversity Survey and Assessment Guidelines for Developments and Activities (2004)
	Green Offsets for Sustainable Regional Development: Concept Paper (NSW Government, May 2002)
Heritage	
Aboriginal	Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC)
	Aboriginal Cultural Heritage Standards and Guidelines Kit
	Interim Community Consultation Requirements for Applicants
Non- Aboriginal	NSW Heritage Manual (NSW Heritage Office & DUAP)
	The Burra Charter (The Australia ICOMOS charter for places of cultural significance)
Noise	
	NSW Industrial Noise Policy (DECC)
	Environmental Criteria for Road Traffic Noise (NSW EPA)
	Environmental Noise Control Manual (DECC)
Air Quality	
	Protection of the Environment Operations (Clean Air) Regulation 2002
	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC)
	Approved Methods for the Sampling and Analysis of Air pollutants in NSW (DEC)
Greenhouse Gas	
	AGO Factors and Methods Workbook (AGO)
	Draft Guidelines: Energy and Greenhouse in EIA, NSW Department of Planning, 2002
	The Greenhouse gas Protocol: Corporate Standard, World Council for Sustainable Business Development & World Resources Institute
	National Greenhouse Accounts (NGA) Factors, Australian department of Climate Change, 2008
	Guidelines for Energy Savings Action Plans (DEUS, 2005)
Transport	
	Guide to Traffic Generating Development (RTA)
	Road Design Guide (RTA)
Waste	
	Waste Avoidance and Resource Recovery Strategy 2007 (DECC)
	Environmental Guidelines: Solid Waste Landfills (EPA)
	Environmental Guidelines: Assessment, Classification, and Management of Non-Liquid and Liquid Waste (EPA)
Hazards	
	State Environmental Planning Policy No. 33 – Hazardous and Offensive Development

Applying SEPP 33 – Hazardous and Offensive Development Application Guidelines (DUAP)

Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis

Social & Economic

Draft Economic Evaluation in Environmental Impact Assessment (DOP)

Techniques for Effective Social Impact Assessment: A Practical Guide (Office of Social Policy, NSW Government Social Policy Directorate)

Rehabilitation

Mine Rehabilitation – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth of Australia)

Mine Closure and Completion – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth of Australia)

Strategic Framework for Mine Closure (ANZMEC)
