



Director-General's Requirements

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

Application number	06_0213
Project	The proposed Glennies Creek Coal Mine Underground Extension Project, which involves: - the extension of underground mining at the Glennies Creek Coal Mine to extract coal from Longwall Panels 10-17 in the Middle Liddell coal seam; and - associated underground development and transportation activities.
Site	Glennies Creek Coal Mine, approximately 12 kilometres north of Singleton
Proponent	Glennies Creek Coal Management Pty Ltd
Date of Issue	25 January 2007
Date of Expiration	25 January 2009
General Requirements	The Environmental Assessment (EA) must include: - an executive summary; - a detailed description of the project including the: - need for the project; - alternatives considered; and - inter-relationship between the proposed underground operations and other existing, approved or proposed operations at the Glennies Creek Coal Mine; - consideration of any relevant statutory provisions; - a general overview of the environmental impacts of the project, identifying the key issues for further assessment, and taking into consideration the issues raised during consultation; - a detailed assessment of the key issues specified below, and any other significant issues identified in the general overview of environmental impacts of the project (see above), which includes: - a description of the existing environment; - an assessment of the potential impacts of the project, including any cumulative impacts that may arise from the combined operation of the project, together with the other approved and existing mining operations in the region; - a description of the measures that would be implemented to avoid, minimise, mitigate, offset, manage, and/or monitor the impacts of the project; - a draft Statement of Commitments, outlining environmental management, mitigation and monitoring measures; - a conclusion justifying the project, taking into consideration the environmental impacts of the project, the suitability of the site, and the benefits of the project; and - a signed statement from the author of the Environmental Assessment report certifying that the information contained in the report is neither false nor misleading.
Key Issues	Subsidence – A detailed subsidence impact assessment must be provided, including: - detailed modelling for the area potentially affected by subsidence; - analysis of the impact of subsidence on land use, surface infrastructure, and the natural and social/cultural environment; and - a management plan which details the measures proposed to monitor, manage and remediate subsidence and subsidence-related impacts; Surface and Ground Water – including detailed assessment of potential impacts (at both the site and catchment/regional level) on surface waterbodies, aquifers and surface and ground water users. The assessment must include: - predictive modelling of surface and ground water impacts;

	- a water balance for all water to be extracted, dewatered, transferred, discharged or otherwise used by the project and the other existing or approved operations at the mine; and - a surface and ground water contingency strategy which details the measures proposed to protect environmental flows and the water supply of landowners in the region; • Flora and Fauna – including impacts on critical habitats, threatened species, populations, ecological communities, native vegetation and groundwater dependent ecosystems; • Heritage – both Aboriginal and non-Aboriginal; • Greenhouse Gases - a greenhouse gas assessment (including a quantitative analysis of greenhouse gas emissions associated with the combustion of product coal, and a qualitative assessment of the impacts of these emissions on the environment); and • Hazard and Risk – including public safety and site security.
References	The Environmental Assessment must take into account relevant State government technical and policy guidelines. While not exhaustive, guidelines which may be relevant to the project are included in the attached list.
Consultation	During the preparation of the Environmental Assessment, you must consult with the relevant local, State or Commonwealth government authorities, service providers, community groups or affected landowners. In particular you must consult with: • Department of Environment and Conservation; • Department of Natural Resources; • Department of Primary Industries; • Mine Subsidence Board; and • Singleton Shire Council. The consultation process and the issues raised must be described in the Environmental Assessment.
Deemed refusal period	90 days

State Government Technical and Policy Guidelines - For Reference

Aspect	Policy /Methodology
Soil and Water	
	• <i>Managing Urban Stormwater: Soils & Construction</i> (Landcom); • <i>Guidelines for Fresh and Marine Water Quality</i> (ANZECC); • <i>Rehabilitation Manual for Australian Streams</i> (Land and Water Resources Research and Development Corporation); • the various <i>State Groundwater Policy</i> documents (DNR); • <i>Approved Methods for the Sampling and Analysis of Water Pollutants in NSW</i> (DEC);
Flora and Fauna	
	• draft <i>Guidelines for Threatened Species Assessment</i> (DEC); • <i>Threatened Biodiversity Survey and Assessment: Guidelines for Development and Activities</i> (DEC); • <i>Guidelines for Assessment of Aquatic Ecology in EIA</i> (DoP); • <i>Policy and Guidelines Aquatic Habitat Management and Fish Conservation</i> (DPI); • <i>NSW Groundwater Dependent Ecosystem Policy</i> (DNR);
Heritage	
	• draft <i>Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation</i> (DEC); • <i>Assessing Heritage Significance</i> (NSW Heritage Office); • <i>NSW Heritage Manual</i> (NSW Heritage Office);
Greenhouse Gas	
	• <i>AGO Factors and Methods Workbook</i> (Australian Greenhouse Office);
Waste	
	• <i>Environmental Guidelines: Assessment and Classification and Management of Liquid and Non-Liquid Wastes</i> (DEC).

Table A.1 Director-General's Requirements (06_0213)

General Requirements	Requirement	Relevant Section	Comment
	Executive Summary	Executive Summary	
	Detailed description of the project including: • need for the project • alternatives considered • inter-relationship between the proposed underground operations and other existing, approved or proposed operations at Glennies Creek Coal Mine	Section 2	
	Consideration of any relevant statutory provisions	Section 3	
	A general overview of the environmental impacts of the project, identifying the key issues for further assessment, taking into consideration the issues raised during consultation	Section 5	A risk assessment identified the hazards, analysed the risks and recommended additional controls. Activities and issues identified as a risk to environmental or social elements have been the primary focus (key issues) of this Environmental Assessment.
	A detailed assessment of the key issues specified in the DG Requirements, and any other significant issues identified, including: • description of the existing environment • assessment of potential impacts • description of management and mitigation measures to be implemented	Section 2 Sections 7 to 9 Sections 11 to 13	
	A draft Statement of Commitments	Section 15	
	A conclusion justifying the project	Section 16	

Requirement		Relevant Section	Comment
Subsidence	A signed statement from the author of the EA certifying that the information contained in the report is neither false or misleading	Inside front cover	
	Detailed modelling for the area potentially affected by subsidence	Section 4.1	Subsidence prediction methodology identified in Section 4.1.1 and results in Section 4.1.2.
	Analysis of the impact of subsidence on landuse, infrastructure, natural and social/cultural environment	Sections 7 to 9 Sections 11 to 13	Impacts of subsidence addressed throughout the assessment in relation to each of the key issues
	Management plan which details the measures proposed to monitor, manage and remediate subsidence-related impacts	Section 4.1	Subsidence management identified in Section 4.1.3 and monitoring in Section 4.1.4
Surface and Ground Water	Predictive modelling of surface and groundwater impacts	Sections 8 and 9	The assessment was based previous subsidence observations from GCC mining of Longwalls 1 to 7, as well as subsidence predictions for GCC Longwalls 10 to 17.
	A water balance for all water to be extracted, dewatered, transferred, discharged or otherwise used by the project and other existing or approved operations at the mine	Section 8.8	A recommended modelling program to be undertaken prior to mining Longwall 10 is outlined in Section 9.7.
	A surface and groundwater contingency strategy which detailed the measures proposed to protect environmental flows and the water supply of landowners in the region	Section 8.7.5	Surface water contingency measures and dirty water containment is provided in Section 8.7.5 No registered groundwater extraction bores are located within or adjacent to the Project Area and, therefore, temporary groundwater level depletion that may occur due to subsidence will not adversely

Requirement		Relevant Section	Comment
Flora and Fauna	Assessment of impact on critical habitats, threatened species, populations, ecological communities, native vegetation and groundwater dependant ecosystems	Section 11	affect any groundwater users in the area. Therefore no groundwater contingency strategies have been recommended
Heritage	Assessment of both Aboriginal and non-Aboriginal heritage	Section 12	
Greenhouse Gases	A greenhouse gas assessment including a quantitative analysis of greenhouse gas emissions associated with the combustion of product coal, and a qualitative assessment of the impacts of these emissions on the environment	Section 10	
Hazard and Risk	Including public safety and site security	Section 14.2	
References	The EA must take into account relevant State government technical and policy guidelines.		
Consultation	Consultation must be undertaken with the relevant local, State and Commonwealth government authorities, service providers, community groups or affected landowners.	Section 6	