



Contact: David Mooney  
Phone: (02) 9228 2040  
Fax: (02) 9228 6399  
Email: [david.mooney@planning.nsw.gov.au](mailto:david.mooney@planning.nsw.gov.au)

Brian Hanley  
Manager, Energy & Sustainability  
Manildra Group  
PO Box 123  
NOWRA NSW 2541

Our ref: 10/06422



Dear Mr Hanley,

**Director General's Requirements - Section 75W Modification Application -  
Shoalhaven Starches Expansion Project - MP06\_0228  
Fermentation tanks and distillation columns MOD 2**

I refer to your request to modify the Minister's approval (MP 06\_0228) at the Shoalhaven Starches Bomaderry Factory, under Section 75W of the *Environmental Planning & Assessment Act 1979* (EP&A Act).

I have attached a copy of the Director-General's requirements for the environmental assessment of the proposed modification.

These requirements will be published on the Department's website along with other relevant information that becomes available during the assessment of the proposed modification. Please ensure any documents that you submit are in a suitable format for the web.

You should contact the Department at least 2 weeks before you propose to submit the environmental assessment for the project so that we may determine:

- the applicable fees;
- the consultation requirements; and
- the number of copies of the environmental assessment required.

Please feel welcome to telephone or email David Mooney on the details above if you have any questions.

Yours sincerely

*David Kitto* 1/9/11

David Kitto  
**Director**  
**Mining and Industry**  
As delegate for the Director-General

# Director-General's Requirements

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

<b>Application number</b>	MP06_0228 MOD 2 Fermentation tanks and distillation columns
<b>Proposed modification</b>	To install two additional ethanol fermentation tanks to facilitate batch instead of continuous fermentation; and to replace one older high steam-pressure distillation column with three new low steam-pressure distillation columns to improve energy efficiency.
<b>Site</b>	160 Bolong Road, Bomaderry
<b>Proponent</b>	Shoalhaven Starches Pty Ltd
<b>Date of Issue</b>	August 2011
<b>Date of Expiry</b>	August 2013
<b>General Requirements</b>	<p>The Environmental Assessment of the proposed modification must include:</p> <ul style="list-style-type: none"> <li>• an executive summary</li> <li>• a detailed description of the following within the site and any associated areas: <ul style="list-style-type: none"> <li>– historical operations/activities</li> <li>– existing and approved operations/facilities, including any statutory approvals that apply to these operations and facilities;</li> <li>– a description of the proposed modifications in relation to any existing environmental management plans that may need to be updated;</li> </ul> </li> <li>• a detailed description of the project, including: <ul style="list-style-type: none"> <li>– need for the modification</li> <li>– proposed modifications or upgrades to activities or infrastructure</li> <li>– alternatives considered</li> <li>– various components and stages of the proposal</li> <li>– likely interactions between existing and proposed operations; and</li> <li>– plans of any proposed building works</li> <li>– flow-diagrams that show how the modifications work.</li> </ul> </li> <li>• a detailed assessment of the following, and any other significant issues identified in the Environmental Risk Assessment (see 'Key Issues'): <ul style="list-style-type: none"> <li>– a description of the existing environment, using baseline data;</li> <li>– a detailed description of the process and equipment modifications involved (to determine whether any additional impacts are likely (e.g. noise, odour, wastewater and traffic);</li> <li>– an assessment of the potential impacts of the project, including any cumulative impacts, taking into consideration any relevant guidelines, policies, plans and statutory provisions</li> <li>– a description of the measures that would be implemented to avoid, minimise, mitigate, rehabilitate/remediate, monitor and/or offset the potential impacts of the project, including detailed contingency plans for managing any significant risks to the environment.</li> </ul> </li> <li>• a statement of commitments, outlining all the proposed environmental management and monitoring measures</li> <li>• a conclusion justifying the project on economic, social and environmental grounds, taking into consideration whether the project is consistent with the objects of the <i>Environmental Planning &amp; Assessment Act 1979</i>; and</li> <li>• a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.</li> </ul>

<b>Key Issues</b>	<ul style="list-style-type: none"> <li>• <b>Preliminary Hazard Analysis</b> <ul style="list-style-type: none"> <li>- update the existing Preliminary Hazard Analysis with the new processes and additional equipment.</li> </ul> </li> </ul>
<b>References</b>	While not exhaustive, the following attachment contains a list of the guidelines, policies, and plans that may be relevant to the environmental assessment of the project.
<b>Consultation</b>	<p>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. The consultation process and the issues raised must be described in the Environmental Assessment.</p> <p>In particular, you should consult with:</p> <ul style="list-style-type: none"> <li>• Shoalhaven City Council; and</li> <li>• Department of Environment, Climate Change and Water.</li> </ul> <p>The consultation process and the issues raised must be described in the Environmental Assessment.</p>

## Guidelines, Policies and Plans

Aspect	Policy /Methodology
<b>Hazard and Risk</b>	AS/NZS 4360:2004 Risk Management HB 203:2006 Environmental Risk Management – Principals and Process State Environmental Planning Policy No 33– Hazardous and Offensive Development (SEPP 33) Applying SEPP 33 – Hazardous and Offensive Development Guidelines Planning Advisory Paper No. 6 – Hazard Analysis, 2011, Department of Planning Planning Advisory Paper No. 4 – Risk Criteria for Land Use Safety Planning, 2011, Department of Planning
<b>Air Quality</b>	Protection of the Environment Operations (Clean Air) Regulation 2002 Approved Methods and Guidance for the Modelling and Assessment of Air Pollutants in NSW (DEC) Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DEC)
<b>Odour</b>	Technical Framework: Assessment and Management of Odour from Stationary Sources in NSW (DEC) Technical Notes: Assessment and Management of Odour from Stationary Sources in NSW (DEC)
<b>Noise</b>	NSW Industrial Noise Policy (DECC) Environmental Criteria for Road Traffic Noise (NSW EPA) Environmental Noise Control Manual (DECC)
<b>Soil and Waters</b>	
<i>Soil</i>	Acid Sulfate Soil Manual (ASSMAC) 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 (DUAP and EPA) Contaminated Sites: Sampling Design Guidelines (NSW EPA) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites (NSW EPA)
<i>Surface Water</i>	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) National Water Quality Management Strategy - Guidelines For Water Recycling: Managing Health And Environmental Risks (Phase1) (EPHC, NRMMC & AHMC) National Water Quality Management Strategy - Guidelines For Water

	Recycling: Managing Health And Environmental Risks (Phase1) (EPHC, NRMCC & AHMC)
	Managing Urban Stormwater: Council Handbook. Draft (EPA)
	Managing Urban Stormwater: Treatment Techniques (EPA)
	Managing Urban Stormwater: Source Control. Draft (EPA)
	Managing Urban Stormwater: Soils & Construction (Landcom)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)
	Floodplain Risk Management Guideline: Practical Consideration of Climate Change (DECC)
Groundwater	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
	The NSW State Groundwater Dependent Ecosystem Policy (DLWC)
	Guidelines for the Assessment and Management of Groundwater Contamination (DECC) Draft
<b>Greenhouse Gas</b>	
	National Greenhouse Accounts (NGA) Factors
	Guidelines for Energy Savings Action Plans (DEUS)
<b>Transport</b>	
	Guide to Traffic Generating Development (RTA)
	Road Design Guide (RTA)
<b>Waste</b>	
	Waste Avoidance and Resource Recovery Strategy (Resource NSW)
	Waste Classification Guidelines (DECC)
<b>Flora and Fauna</b>	
	Draft Guidelines for Threatened Species Assessment under Part 3A of the <i>Environmental Planning and Assessment Act 1979</i> (DEC)
	State Environmental Planning Policy No. 44 – Koala Habitat Protection
<b>Visual</b>	
	Control of Obtrusive Effects of Outdoor Lighting (Standards Australia, AS4282)
<b>Heritage</b>	
Aboriginal	Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC)
Non-Indigenous	NSW Heritage Manual (NSW Heritage Office & DUAP)