



NSW GOVERNMENT  
**Department of Planning**

**Manufacturing and Rural Industries  
Major Development Assessment**  
Contact: Georgia Ivancevic  
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Email: [georgia.ivancevic@planning.nsw.gov.au](mailto:georgia.ivancevic@planning.nsw.gov.au)  
Level 4 Western Gallery  
23-33 Bridge Street  
GPO Box 39  
SYDNEY NSW 2001

Derek Charge  
Project Director  
BlueScope Steel Limited  
Five Islands Road  
Port Kembla NSW 2505

Our ref: S00/01435

Dear Derek

**Director-General's Requirements –  
Proposed Modification to Steelworks Cogeneration Plant**

I refer to your request to modify the development consent for the Steelworks Cogeneration Plant in Port Kembla Steelworks, under Section 75W of the *Environmental Planning & Assessment Act 1979* (EP&A Act) and clause 8J(8) of the *Environmental Planning and Assessment Regulations 2000*.

I have attached a copy of the Director-General's requirements for the environmental assessment (EA) of the proposed modification. I have also attached a copy of the public authorities comments for your information.

These requirements will be placed on the Department's website along with other relevant information which becomes available during the assessment of the proposed modification. As a result, the Department would appreciate it if you would ensure that any subsequent documents submitted to the Department are in a suitable format for the web.

I would appreciate it if you could contact the Department at least two weeks before you propose to submit the EA so that we can make the necessary arrangements for public exhibition.

If you have any enquiries about these requirements, please contact Georgia Ivancevic of the Department's Manufacturing and Rural Industries team on 02 9228 6457 or [Georgia.Ivancevic@planning.nsw.gov.au](mailto:Georgia.Ivancevic@planning.nsw.gov.au)

Yours sincerely

*David Kitto* 21/4/08

David Kitto  
**Acting Executive Director  
Major Project Assessment**  
As delegate for the Director-General

# Director-General's Requirements

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

<b>Application Number</b>	08_0031
<b>Proposed Modification</b>	Modifications to the construction and operation of a new 225 Mega Watt cogeneration plant and associated infrastructure in the Port Kembla Steelworks, in the Wollongong local government area.
<b>Location</b>	Port Kembla Steelworks, Port Kembla
<b>Proponent</b>	BlueScope Steel Limited
<b>Date of Issue</b>	April 2008
<b>Date of Expiration</b>	April 2010
<b>General Requirements</b>	<p>The Environmental Assessment must include:</p> <ul style="list-style-type: none"> <li>• an executive summary;</li> <li>• a detailed description of the existing and approved operations on the site, and particularly all statutory approvals relevant to the cogeneration plant including the existing cogeneration consent;</li> <li>• a detailed description of the proposed modification, including the: <ul style="list-style-type: none"> <li>▪ need for the modification;</li> <li>▪ alternatives considered;</li> <li>▪ plans for any building works; and</li> <li>▪ various components and stages of the modification;</li> </ul> </li> <li>• consideration of any relevant statutory provisions, including whether the proposed modification is consistent with the objects of the <i>Environmental Planning &amp; Assessment Act 1979</i>;</li> <li>• a general overview of the environmental impacts of the proposed modification, identifying the key issues for further assessment, and taking into consideration the issues raised during consultation;</li> <li>• a detailed assessment of the impact of the proposed modification on the key issues specified below, and any other significant issues identified in the general overview of environmental impacts of the modification (see above), which includes: <ul style="list-style-type: none"> <li>▪ a description of the existing and approved environment;</li> <li>▪ a description of the proposed changes to the current approval;</li> <li>▪ an assessment of the potential impacts of the proposed modification including any potential cumulative impacts;</li> <li>▪ a description of the measures that would be implemented to avoid, minimise, mitigate, offset, manage and/or monitor the impacts of the proposed modification;</li> </ul> </li> <li>• a Statement of Commitments, outlining the proposed environmental management, mitigation and monitoring measures;</li> <li>• a conclusion justifying the proposed modification, taking into consideration the environmental, social and economic benefits of the project; and</li> <li>• a signed statement from the author of the Environmental Assessment certifying that the information in the report is neither false nor misleading.</li> </ul>
<b>Key Issues</b>	<ul style="list-style-type: none"> <li>• <b>Air quality</b> – including a revised air quality assessment, identifying nitrogen oxides and air toxics emissions from the modified proposal compared to the project as originally approved, having regard to the DECC's requirements (attached);</li> <li>• <b>Greenhouse Gas and Energy Efficiency</b> – including quantified assessment of greenhouse gases likely to be generated by the modified proposal compared to the project as originally approved, and a description of the measures that would be implemented to ensure the plant is energy efficient;</li> <li>• <b>Water quality</b> - including assessment of impacts on the water quality resulting from the construction of proposed parallel pipeline over Allan's</li> </ul>

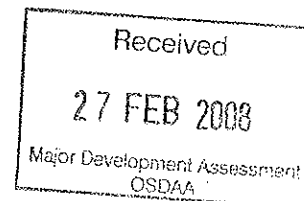
	<p>Creek and discharge of cooling water and anti-fouling agents to Allan's Creek and Port Kembla Harbour, and contingency measures that would be implemented to address any potential risks;</p> <ul style="list-style-type: none"> <li>• <b>Flora and Fauna</b> – including an assessment of impacts from the modified proposal compared to the project as originally approved on threatened species, populations, ecological communities, native vegetation and aquatic ecosystems;</li> <li>• <b>Hazards and Risks</b> – include a Preliminary Hazard Analysis of the modified project, in accordance with the Department's Hazardous Industry Planning advisory papers;</li> <li>• <b>Noise</b> – including an assessment of construction, operation and traffic noise from the modification of the approved project; and</li> <li>• <b>Visual amenity</b> – an assessment of lighting impacts (if any) from the substation and gas holder to be constructed as part of the modified proposal on motorists on Five Islands Road or residents in the Mount St Thomas and Cringilla areas.</li> </ul>
<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>• Department of Environment and Climate Change;</li> <li>• Department of Primary Industries (Fisheries);</li> <li>• Department of Water and Energy;</li> <li>• NSW Maritime;</li> <li>• Roads and Traffic Authority; and</li> <li>• Wollongong City Council.</li> </ul> <p>The consultation process and the issues raised must be described in the Environmental Assessment.</p>
<b>Deemed refusal period</b>	60 days

## State Government Technical and Policy Guidelines - For Reference

Aspect	Policy /Methodology
<b>Air Quality</b>	<ul style="list-style-type: none"> <li>Protection of the Environment Operations (Clean Air) Regulation 2002</li> <li>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC, 2005)</li> <li>Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DECC, 2007)</li> <li>Action for Air, The NSW Government's 25 Year Air Quality Management Plan (DEC, 2006)</li> </ul>
<b>Greenhouse Gas and Energy Efficiency</b>	<ul style="list-style-type: none"> <li>National Greenhouse Accounts (NGA) Factors (DCC)</li> <li>Guidelines for Energy Savings Action Plans (DEUS, 2005)</li> </ul>
<b>Water Quality</b>	<ul style="list-style-type: none"> <li>National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ, 2001);</li> <li>National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ, 2000);</li> <li>Using the ANZECC Guidelines and Water Quality Objectives in NSW (DEC, 2006);</li> <li>Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC, 2004)</li> </ul>
<b>Flora and Fauna</b>	<ul style="list-style-type: none"> <li>Policy &amp; Guidelines - Aquatic Habitat Management and Fish Conservation (NSW Fisheries, 1999)</li> <li>Policy &amp; Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries, 2004)</li> <li>Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (NSW Fisheries, 2004)</li> <li>Threatened Biodiversity Survey and Assessment: Guidelines for Developments and Activities. Working Draft (DEC, 2004)</li> <li>Draft Guidelines for Threatened Species Assessment under Part 3A of the Environmental Planning and Assessment Act 1979 (DEC, 2005)</li> <li>Commonwealth Environmental Protection and Biodiversity Conservation Act 1999 - Guide to implementation in NSW (DoP, 2007)</li> </ul>
<b>Hazards &amp; Risks</b>	<ul style="list-style-type: none"> <li>Applying Sepp 33: Hazardous And Offensive Development Application Guidelines (DUAP, 1994)</li> <li>Multi-Level Risk Assessment (DUAP, 1997)</li> <li>Hazardous Industry Planning Advisory Paper No. 6 - Guidelines for Hazard Analysis (DUAP, 1997)</li> <li>Hazardous Industry Planning Advisory Paper No. 4 – Risk Criteria for land Use Safety Planning (DUAP, 1992)</li> </ul>
<b>Noise</b>	<ul style="list-style-type: none"> <li>NSW Industrial Noise Policy (DEC, 2000);</li> <li>Environmental Criteria for Road Traffic Noise (DEC, 1999);</li> <li>Environmental Noise Control Manual (DEC, 1994);</li> </ul>
<b>Visual</b>	<ul style="list-style-type: none"> <li>Control of Obtrusive Effects of Outdoor Lighting (Standards Australia, AS 4282)</li> </ul>

Your reference : SOO/O1435  
Our reference : 282151A7:DOC08/4210:GN  
Contact : Greg Newman, (02) 4224 4100

Department of Planning  
(Attention: Georgia Ivancevic)  
GPO Box 39  
SYDNEY NSW 2001



Dear Madam

**BLUESCOPE STEEL COGENERATION PLANT  
ENVIRONMENTAL ASSESSMENT REQUIREMENTS**

We refer to your request for the Department of Environment and Climate Change (DECC) to identify key requirements for the Environmental Assessment (EA) in regard to the above proposal for the development of Director-General Requirements (DGR). DECC understands the proposal is a modification to the original Wollongong City Council (Council) consent granted in 2002.

DECC has considered the details of the project as outlined at the Planning Focus Meeting on site on 19 October 2007 as well as the preliminary EA dated December 2007. As mentioned in the document, BlueScope Steel (BSL) and DECC have held several discussions regarding key environmental components of the assessment as part of a pre-planning process, in particular water quality and air quality impacts. The EA must clearly indicate the issues raised during these consultations and how these matters have been addressed in the EA.

Based on the information provided to date and these discussions the DECC has identified the following key environmental issues in relation to the project that should be included in the EA:

- Air quality
- Water quality
- Greenhouse gas emissions
- Noise and vibration
- Threatened species

These issues are outlined in Attachment A with guidance material included as Attachment B.

In the preliminary EA, BSL discusses the air quality modelling currently being undertaken in consultation with DECC. Since the original development consent the Department has adopted a new nitrogen oxides (NOx) policy and requirements for air toxics. The policy, which is included as Attachment C, applies to NOx emissions from power generation sources in Sydney and the Illawarra, that is, airsheds which do not meet National Air Quality Goals for ozone. To address this NOx policy and air toxics requirements, the EA must cover the requirements listed in Attachment A.

The Department of Environment and Conservation NSW is now known as  
the Department of Environment and Climate Change NSW

PO Box 513, Wollongong NSW 2520  
Level 3, 84 Crown Street, Wollongong NSW  
Tel: (02) 4224 4100 Fax: (02) 4224 4110  
ABN 30 841 387 271  
[www.environment.nsw.gov.au](http://www.environment.nsw.gov.au)

Department of **Environment and Conservation** NSW



If you have any questions, or wish to discuss this matter further please contact Greg Newman on 4224 4100 if you have any questions in relation to this issue.

Yours sincerely

*William Dove 22/02/2008*

**WILLIAM DOVE**  
**Acting Manager Illawarra**  
**Environment Protection and Regulation**

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Att:

cc: Steelworks Cogeneration Plant Project  
BlueScope Steel (AIS) Pty Ltd  
(Attention: Steve Shaw)  
PO Box 1854  
WOLLONGONG NSW 2500

## **Attachment A – Department of Environment and Climate Change Environmental Assessment Requirements**

### **1. Environmental Impacts of the Project**

- a) The following environmental impacts of the project need to be assessed, quantified and reported on:
  - Air quality
  - Greenhouse gas emissions
  - Water quality
  - Noise and vibration
  - Threatened species
- b) These should be assessed in accordance with the relevant guidelines listed in Attachment B.
- c) Details are required on the location of the proposed development including the affected environment to place the proposal in its local and regional environmental context including surrounding landuses, planning zonings and potential sensitive receptors.
- d) Describe mitigation and management options that will be used to prevent, control, abate or mitigate identified environmental impacts including any cumulative impacts associated with the project and to reduce risks to human health and prevent the degradation of the environment. This should include an assessment of the effectiveness and reliability of the measures and any residual impacts after these measures are implemented.
- e) Based on the information provided to the Department of Environment and Climate Change (DECC), the applicant will require a variation to the existing Environment Protection Licence (number. 6092) to:
  - carry out scheduled development work; and
  - carry out scheduled activities.

### **2. Air Quality**

A key air pollutant of concern for the proposed development will be Nitrogen Oxides (NO<sub>x</sub>) emissions and the impact of any large emissions source in relation to achieving the NSW State Plan clean air target.

State Plan Priority E3 for clean air is for NSW to meet the National Environment Protection Measure for Ambient Air Quality (Air NEPM) goals. The Illawarra has exceeded the ozone goal for eight of the last 13 years. The Illawarra region will not achieve ongoing compliance with the Air NEPM ozone goal by the compliance date of 2008. Further increase in NO<sub>x</sub> emissions could severely compromise the regions ability to achieve the State Plan clean air target in a timely and cost-effective manner.

The health costs of air pollution on the NSW community are substantial. The health cost of air pollution in the Sydney Greater Metropolitan Region (which includes the Illawarra) is estimated at \$4.7 billion per year

To maintain our capacity to achieve the State Plan clean air target in a timely and cost-effective manner, DECC considers the Environmental Assessment (EA) should address the following items:



#### **a) Demonstrate consistency with the NOx Policy**

On 9 August 2002 Wollongong City Council granted development consent for Development Application D767/01. This consent included an annual NOx limit of 1,080 tonnes per annum (consent limit).

The consent limit is based on the quantity of emissions from all plant associated with this project.

The DECC expects the revised proposal to demonstrate consistency with the NOx policy included as Attachment C. That is to achieve either:

- **NOx neutral emissions and/or equivalent emission reductions off site**

That is, NOx emissions, no greater than the consent limit of 1,080 tonnes per annum, or an equivalent emissions reduction external to the project (i.e. offsets from on site or off site sources).

or

- **BACT emission performance for NOx emissions**

California has required BACT on new power plants since 1999, with new installations required to achieve NOx emissions of less than 10 mg/m<sup>3</sup> of NOx. DECC expects that BACT is consistent with achieving a NOx emission concentration of less than 10 mg/m<sup>3</sup> as a three hour rolling average for any emissions above the consent limit.

For clarity, where the agreed NOx neutral level of emissions cannot be achieved by the proposal, an emissions reduction, external to the project, equivalent to the quantity of proposed emissions in excess of the agreed neutral quantity of emission is required. For example, if the project emits say 1,200 tonnes of NOx per annum, at least (1,200 – 1,080) 120 tonnes per annum is required to be reduced through offsets).

#### **b) Air Toxics**

Emissions of air toxics must be minimized to the maximum extent achievable through the application of best practice process design and/ or emission controls as discussed in section 7.2.1 of the *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales*.

#### **c) Air Quality Impact Assessment**

All potential air emissions from the proposed development must be fully characterised, and any local air quality impacts must be fully assessed in accordance with the *Approved Methods for the Modelling and Assessment of Air Pollutants in NSW*. BSL have advised the development will be NOx neutral therefore no regional assessment on ozone formation is required.

Since the original consent was granted there has been considerable change in land uses to the south of the site and planning approval granted to additional industrial NOx sources. Significant residential development is occurring in Haywards Bay/Tallawarra area and West Dapto. As per the *Approved Methods*, the Air Quality Impact Assessment (AQIA) must consider impacts on known and likely populations.

Emissions from a range of potential plant operating scenarios should also be assessed and reported for both indigenous gases and imported gas fuel including: peaking with natural gas as well as high and low load operations. BSL must consult with DECC on the operating scenarios to be modelled. The aim is to adequately characterise the likely worst case impacts that may occur.

### **3. Greenhouse Gas Considerations**

DECC requires the following in relation to greenhouse emissions:

- a) A comprehensive assessment of and report on the project's predicted greenhouse gas emissions (tCO<sub>2</sub>e), including emissions on:
  - i. a tonne per unit of production (MWh) basis
  - ii. a total annual emissions basis
  - iii. a fuel basis, including indigenous and natural gas.
- b) The emissions associated with the project should include direct emissions, indirect emissions (eg those associated with on-site electricity use) and any significant upstream and/or downstream emissions associated with the project.
- c) The emissions should be estimated using an appropriate methodology, as outlined in the Department of Planning's Draft *Guidelines: Energy and Greenhouse in EIA* (2002) and the Australian Greenhouse Office's *Factors and Methods Workbook* (2006).
- d) Annual emissions should be compared against:
  - i. 'best practice' emissions for peak electricity generation
  - ii. total annual NSW emissions, so the impact of the proposal on NSW emission reduction targets can be evaluated
  - iii. emissions from a coal fired facility producing an equivalent amount of electricity.

### **4. Impacts on Water Quality**

The EA should demonstrate how the proposal will be designed and operated to protect the water quality objectives of Port Kembla Harbour and the practical measures that could be taken to restore or maintain those water quality objectives, including but not limited to:

- Practical measure to mitigate the impact of the thermal plume
- How the project will be designed and operated to address concentration of compounds that may be toxic to aquatic ecology
- Assess the potential impacts to organisms captured in cooling water intakes as well as any mitigation factors proposed to limit these impacts

The EA should be carried out in accordance with National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC 2000) and in consultation with the DECC. Extensive consultation on an assessment process (including modelling and monitoring methodologies) on water quality issues has occurred between BSL and the DECC. Major potential impacts considered include but are not necessarily limited to, the thermal discharge and the discharge of antifouling agents (ecotoxicological effects and viability of alternatives including physical cleaning options). The EA must clearly indicate the issues raised during these consultations and how these matters have been assessed.

### **5. Impacts of Noise and Vibration**

The development should design the SCP and associated activities in accordance with the NSW *Government's Industrial Noise Policy* (INP). DECC understands BSL believe noise emissions will be reduced by decommissioning of the Number 1 Powerhouse. Details of the anticipated change in noise emissions must be provided.

## **6. Impacts of the Modification on Threatened Species and their Habitat**

Likely impacts on threatened species and their habitat need to be assessed, evaluated and reported on in accordance with the *Threatened Biodiversity Survey and Assessment (DECC working draft November 2004)* and the *Assessment of Significance Guidelines (DECC 2007)*.

The EA should describe the actions that will be taken to avoid or mitigate impacts or compensate to prevent unavoidable impacts of the modification on threatened species and their habitat. This should include an assessment of the effectiveness and reliability of the measures and any residual impacts after these measures are implemented.

BSL must consult with the DECC on this assessment process. The EA must clearly indicate the issues raised during these consultations and how these matters have been assessed.

## **Attachment B - Guidance Material**

### **Assessing Environmental Impacts**

#### **Air Quality**

- Legislative requirements under the Protection of the Environment Operations Act 1997 and its associated Regulation
- Approved Methods for the Sampling and Analysis of Air Pollutants in NSW
- Approved Methods and Guidance for the Modelling and Assessment of Air Pollutants in New South Wales.
- Action for Air; The NSW Government's 25 Year Air Quality Management Plan (March 1998)

#### **Greenhouse Gas Emissions**

- Draft Guidelines: Energy and Greenhouse in EIA (2002), Department of Planning
- Factors and Methods Workbook (2006), Australian Greenhouse Office

#### **Noise and Vibration**

- NSW Industrial Noise Policy (EPA, 1999)
- NSW Environmental Criteria for Road Traffic Noise (EPA, 1999)
- Chapter 171 Noise Control Guideline, Construction Site Noise, Environmental Noise Control Manual, 1994.

#### **Green Offsets**

Green Offsets for Sustainable Regional Development: Concept Paper (NSW Government, May 2002).

#### **Water Quality**

- National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC 2000)
- The relevant targets within the State Water Management Outcomes Plan
- EPA technical guidelines 'Bunding and Spill Management'.

#### **Stormwater**

- Managing Urban Stormwater: Soils and Construction (NSW Landcom, 2004)
- Managing Urban Stormwater: Source Control (EPA 1998)
- Managing Urban Stormwater: Treatment Techniques (EPA 1998).
- EPA technical guidelines '*Bunding and Spill Management*'.  
<http://www.environment.nsw.gov.au/mao/bundingspill.htm>.

#### **Threatened Species**

- Threatened Biodiversity Survey and Assessment (DECC working draft November 2004)
- Assessment of Significance Guidelines (DECC 2007).
- Draft Green and Golden Bell Frog *Litoria aurea* Recovery Plan
- DECC The Management Plan Green and Golden Bell Frog Key Population at Port Kembla
- Environmental Impact Assessment Guidelines Green and Golden Bell Frog (DECC 2003).

## Attachment C: DECC Nitrogen Oxides Policy

In order to maintain our ability to achieve the State Plan clean air target in a timely and cost-effective manner, DECC recommends that the following approach be taken for all new gas fired power stations:

- For all proposals, regardless of location, an air quality impact assessment is required demonstrating no adverse impact on human health or the environment in accordance with the *Approved Methods for the Modelling and Assessment of Air Pollutants in NSW*.
- Proposals in Sydney and the Illawarra should either be NO<sub>x</sub> neutral or required to achieve BACT emission performance.
  - Proposal can be NO<sub>x</sub> neutral by either operating within existing approved capacity for NO<sub>x</sub> emissions, and/or achieving an equivalent emission reduction off-site.
  - DECC expects that BACT is consistent with achieving a NO<sub>x</sub> emission concentration of less than 10 mg/m<sup>3</sup> as a 3-hour rolling average.

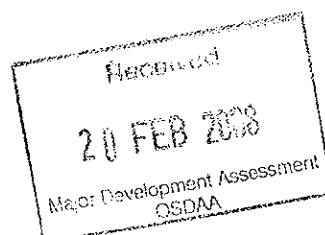
Proposals outside of Sydney and the Illawarra are required to meet the *Protection of the Environment (Clean Air) Regulation 2002* NO<sub>x</sub> emission limit of 70 mg/m<sup>3</sup> for gas-fired turbines.





18 February 2008

Georgia Ivancevic  
Major Development Assessment  
NSW Department of Planning  
GPO Box 39  
SYDNEY NSW 2001



Your ref: S00/01435

Dear Ms Ivancevic,

**Re: Proposed Bluescope Steel Cogeneration Plant, Port Kembla  
Modification of Development Consent DA767/01A,  
Part 4 EP&A Act Consultation**

I refer to your letter received 4 February 2008, and enclosed preliminary environmental assessment by CH2M HILL Pty Ltd (dated December 2007), requesting Department of Primary Industries key issues and environmental assessment requirements for the above proposed modification of development consent under Section 75W of the *Environmental Planning and Assessment Act 1979*.

**Issues Related to Fisheries**

The responsibilities of the Department of Primary Industries (DPI) include conserving fish stocks and fish habitat, marine vegetation, threatened fish species and aquatic biodiversity. As such the Department is concerned about any potential impacts that the proposed modified development may have on aquatic species and the aquatic environment in the vicinity.

**Environmental Assessment Requirements**

The Department advises that the Environmental Assessment for the proposed modified development should include and consider the following issues:

- Description of aquatic environments (waterways, wetlands) located on the site or adjacent to the site.
- Description of proposed works in or adjacent to waterways, especially detailed plans of proposed parallel pipeline structure over Allan's Creek and proposed cooling water dispersion structure.
- Analysis of any interactions of the proposed development and works with aquatic environments, including the intertidal zone and any marine vegetation (e.g. mangroves, seagrass and macroalgae - seaweeds).





- Predictions of any impacts upon aquatic environments (including marine vegetation) on or adjacent to the site (both temporary and permanent), especially impacts of the proposed parallel pipeline over Allan's Creek and discharge of cooling water and anti-fouling agents to Allan's Creek and Port Kembla Harbour.
- Safeguards to mitigate any impacts upon aquatic species and environments and riparian habitats (e.g. full details of proposed management regime for cooling water discharges, proposed riparian rehabilitation and revegetation plans, proposed monitoring program for aquatic species).
- Predictions of any impacts upon water quality and aquatic threatened species, populations and ecological communities listed under the *Fisheries Management Act 1994* (both temporary and permanent).
- Safeguards to mitigate any impacts upon water quality, including impacts downstream into Allan's Creek and Port Kembla.

DPI recommends that the development include a monitoring program for aquatic species in Allan's Creek and Port Kembla to document any ongoing impacts of cooling water and anti-fouling agent discharges. DPI also recommends that where the riparian zone has become degraded or disturbed due to past use or the proposed construction works, rehabilitation of the riparian area is undertaken including planting of endemic riparian vegetation. Retention and replanting of native riparian vegetation will help to protect receiving waters from erosion and runoff and benefit aquatic habitats.

The design and construction of the proposed parallel pipeline crossing of Allan's Creek should be in accordance with best management practice to maintain fish passage and create minimal impact on the aquatic environment within the immediate vicinity of the proposed works. The Department recommends that the proponent consult the following DPI guidelines - *Policy and Guidelines for Fish Friendly Waterway Crossings* (2004) and *Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings* (2004). These documents are available on our website [www.dpi.nsw.gov.au](http://www.dpi.nsw.gov.au), under 'Aquatic Habitats' and 'Publications'.

For further detailed advice on DPI's aquatic habitat requirements, the proponents should refer to the Department's *Policy and Guidelines Aquatic Habitat Management and Fish Conservation* (1999) also available on our website [www.dpi.nsw.gov.au](http://www.dpi.nsw.gov.au).

#### DPI (Fisheries) Approvals

An approval for dredging and reclamation (under sections 198-203 of the *Fisheries Management Act 1994*) may be required from DPI if any excavation or reclamation in a waterway (below the Mean High Water Mark) is to occur unless the work is specifically authorised under the *Crown Lands Act 1989* or by a NSW public authority other than a local government authority (e.g. Department of Water and Energy DWE – Part 3A permit).



However, please note that a NSW public authority (e.g. DWE) is required under section 199 of the Act to consult with DPI and take into account any issues raised prior to approving dredging and reclamation works in a waterway. If the dredging and reclamation works are undertaken by BlueScope Steel (or contractor) without specific approval from another NSW public authority, a DPI permit will be required.

A DPI permit may also be required for any works which result in the blocking of fish passage (whether temporary or permanent) under section 219 of the *Fisheries Management Act 1994*.

A permit from DPI is also required for the use of explosives in any waterways (under Clauses 112-113 of the *Fisheries Management (General) Regulation 2002*).

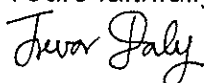
Please ensure a copy of the Director-General's Requirements and the subsequent environmental assessment documents and detailed designs provided by the proponent for this development are provided to DPI for review and further comment if required prior to consent approval. DPI also requests that a copy of this correspondence is provided to the proponent for their information.

#### **Issues Related to Agriculture, Mineral Resources and State Forests**

None.

If you require any further information, please contact me on 02) 4478 9103.

Yours faithfully



**Trevor Daly**  
**Fisheries Conservation Manager, South Coast**

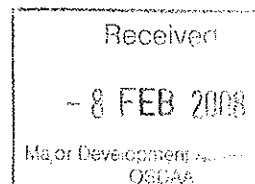




Our Ref: 497da277 (08/99)

Contact: Nicole Stevenson (4221 2523)

Your Ref: S06/00556



Major Development Assessment  
Department of Planning  
GPO Box 39  
SYDNEY 2001

5 FEB 2008

**WOLLONGONG CITY COUNCIL - DAS06/00556 - BLUESCOPE STEEL  
COGENERATION PLANT, PORT KEMBLA**

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Dear Sir

I refer to your letter received on the 31 January 2008 regarding the subject development application forwarded to the RTA for consideration. The RTA notes that the proposal is for a modification to a development application that the RTA did not raise any objections to.

The RTA has reviewed the submitted information and as the proposed modification is unlikely to lead to any additional traffic impact on the external road network, the RTA has no objection to the proposal. In this regard, the RTA does not require any additional information to assess the subject proposal.

Should you require any clarification regarding this matter please contact Nicole Stevenson on 42212523.

Yours faithfully

Trish McClure  
Manager, Road Safety and Traffic Management  
Southern Operations and Engineering Services





## Chris Ritchie - BSL Co-Generation Plant

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**From:** "Rachel Harrison" <RHarrison@wollongong.nsw.gov.au>  
**To:** <Georgia.Ivancevic@planning.nsw.gov.au>  
**Date:** 19/02/2008 5:43 PM  
**Subject:** BSL Co-Generation Plant

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Georgia

Council would like to thank you for the opportunity to comment on the applitaion in regards to the key issues. Council acknowledges that the Minister is the approval authority for the proposed modification however the consent remains a consent issued under Part 4 and as such ultimately will become Council's responsibility once the modification is issued. In this regard Council would like to be invovled during the processing of this modification application and formulation of the conditions as much as possible.

As the environmental assessment matters relate mainly to air and water impacts Council is very much guided by the requirements of the associated government authorities in this regard as we were in the orgonal consent issued by Council.

Council will take a further opportunity to review the application during the notification period.

Regards

Rachel Harrison  
SENIOR DEVELOPMENT PROJECT OFFICER  
WOLLONGONG CITY COUNCIL  
PHONE: 4227 7225







NSW Government

Department of Water & Energy

Received

- 5 MAR 2008

Major Development Assessment  
OSDMA

Department of Planning  
GPO Box 39  
SYDNEY NSW 2001

Contact: Darryl Goldrick  
Phone: 02 4224 9664  
Fax: 02 4224 9650  
Email: Darryl.Goldrick@dnr.nsw.gov.au

**Attention: Georgia Ivancevic**  
Manufacturing & Rural Industries -  
Major Development Assessment

Our ref: ERM 2008/04753  
Your ref: S00/01435

4 March 2008

Dear Madam

**Subject: BlueScope Steel Cogeneration Plant, Port Kembla, Wollongong LGA**

The Department of Water & Energy (DWE) has been fortunate to have participated in pre-DA consultation and site inspections with the proponent in respect to the above project.

In this instance, DWE is in a position to issue its "Controlled Activity" Approval in accordance with the provisions of Part 3, s. 91(2) of the Water Management Act 2000, for those works that are proposed within 40 metres from Allans Creek. Attached is the approval and description of relevant works associated with the approval.

Should there be any amendments to plans and drawings sited in the attached approval, the Department will require such amendments to be re-submitted to DWE for consideration.

Should you have any queries regarding the above please contact Darryl Goldrick on (02) 4224 9664 or mobile 0427 143 251.

Please forward future correspondence to Keti Nikolovski, Licensing Officer, Department of Water and Energy, PO Box 53, Wollongong NSW 2520.

Yours sincerely

For **Marwan El-Chamy**  
Manager Licensing, South





NSW Government

Department of Water &amp; Energy

**WATER MANAGEMENT ACT 2000  
CONTROLLED ACTIVITY APPROVAL***for controlled activity on waterfront land in New South Wales***REFERENCE NO: ERM 2008/04753****FILE NO:****CONTROLLED ACTIVITY APPROVAL ISSUED TO:** (Approval Holder)

Name of Applicant:	BLUESCOPE STEEL		
Postal Address:	PO Box 1854		
	Town/City WOLLONGONG	State NSW	P/Code 2500
Company Name:	AS ABOVE		
Office Address:			
	Town/City	State	P/Code

**PROPERTY OWNER/S:**

Name of Owner/s (1)	AS ABOVE		
Postal Address:			
	Town/City	State	P/Code
Name of Owner/s (2)			
Postal Address:			
	Town/City	State	P/Code

**AT THE SITE DESCRIBED AS:**

Property Address:	BlueScope Steel Industrial Site		
	Town/City	State	P/Code
Lot 1	DP: 606434	Portion	Parish
Lot	DP:	Portion	Parish

**Name of watercourse** (if known) Allans Creek**Local Council:** Wollongong City Council**Development Reference:** S00/01435**DETAILS OF CONTROLLED ACTIVITY TO BE UNDERTAKEN**

1. Construction of LGD gas holder.
2. Saltwater cooling discharge pipeline and outlet on Allans Creek.

**PERIOD OF APPROVAL:** Two (2) Years**DATE OF ISSUE:** 04/03/2008**DATE OF EXPIRY:**

04/03/2010

**CONDITIONS OF APPROVAL:*****Plans, standards and guidelines***

1. The approval holder must not transfer this Controlled Activity Approval number ERM 2008/04753 to another person without the written approval of DWE.
2. A copy of the current Controlled Activity Approval (number ERM 2008/04753) must be kept on site at all times and made available to DWE officers upon request.
3. If activities the subject of this approval have not commenced or been completed within the period of this approval, the approval holder must apply for a new approval or seek an extension prior to the lapsing of the consent.





4. The approval holder must comply with the requirements of each of the plans as approved by DWE on 4 March 2008 as follows:
  - Saltwater Cooling System Drainage Alignment Key Plan 484305 Rev. A;
  - Saltwater Cooling System Discharge Structure – General Arrangements & Setout 484318 Rev. A;
  - Saltwater Channel Upgrade Stockpile Road Diversion Proposal 485326 Rev. A, dated 26 February 2008;
  - Replacement Cross Beam Concept Detail Fig. 001 & 002, dated 27 February 2008;
  - Sketch 2 & 3, dated 6 February 2008.
5. The approval holder must submit for the Department's approval any amendments to plans listed in condition 4 prior to carrying out any works in relation to the approved activity.

**Rehabilitation and maintenance**

6. The approval holder must maintain the approved controlled activity on waterfront land for a period of two (2) years from the date of completion of the controlled activity works.

**Reporting requirements**

7. At practical completion and/or at the end of the maintenance period, the approval holder must provide a final written report to DWE evidencing completion of the approved controlled activity.
8. The approval holder must notify DWE in writing within 2 years time if controlled activity works are to be:
  - suspended for a period of more than 2 years, or
  - terminated before their full completion, or
  - resumed after suspension.

**Disposal**

9. The approval holder must not leave materials which could obstruct the flow of water or damage river banks on waterfront land at any time.

**Drainage and Stormwater**

10. The approval holder must establish all drainage control works in accordance with Plan numbers specified in Condition 4.
11. The approval holder must direct runoff from the site or from other river or drains to the base of the bank of the river or low flow water level by either a pipe or lined channel in accordance with Plan numbers in Condition 4.

**Erosion Control**

12. The approval holder must decommission all erosion and sediment control works using a suitably qualified person [within 1 month of completion of controlled activities].
13. The approval holder must implement erosion and sediment control measures in accordance with the requirements of Council and the Landcom "Managing Urban Stormwater; Soils and Construction" Manual 2004 prior to any works commencing at the site and must maintained for the duration of the approval to prevent sediment and dirty water entering the waterway.

**CONTROLLED ACTIVITY APPROVAL ISSUED BY**

**DARRYL GOLDRICK**

Senior Natural Resource Officer

**Department of Water & Energy**

Level 3, 84 Crown Street

WOLLONGONG NSW 250

PO Box 53, Wollongong NSW 2520.

4/3/08

