



NSW GOVERNMENT  
**Department of Planning**

Major Development Assessment  
Mining & Extractive Industries  
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Level 4 Western Gallery  
23-33 Bridge Street  
GPO Box 39  
SYDNEY NSW 2001

Mr Alan O'Brien  
General Manager Engineering, Technology and Environment  
BlueScope Steel Limited  
PO Box 1854  
WOLLONGONG NSW 2500

Our ref: S08/01094

Dear Mr O'Brien

**Director-General's Requirements  
BlueScope Steel Injection Station Project  
Project Application 08\_0132**

The Department has received your application for the BlueScope Steel Injection Station Project.

I have attached a copy of the Director-General's requirements for the project. These requirements have been prepared in consultation with the relevant Government agencies, and are based on the information you have provided to date. I have also attached a copy of the agencies' 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 me 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 project. This will enable the Department to determine the:

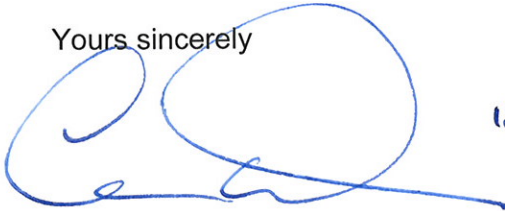
- applicable fee (see Division 1A, Part 15 of the Environmental Planning and Assessment Regulation 2000);
- consultation and public exhibition arrangements; and
- number of copies (hard-copy or CD-ROM) of the Environmental Assessment that will be required for exhibition purposes.

Once it 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 project 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 Georgia Ivancevic on 9228 6457 or [georgia.ivancevic@planning.nsw.gov.au](mailto:georgia.ivancevic@planning.nsw.gov.au).

Yours sincerely



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Chris Wilson  
**Executive Director**  
**Major Project Assessment**  
As delegate for the Director-General

# Director-General's Requirements

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

|                             |   |
|-----------------------------|---|
| <b>Application number</b>   | MP 08_0132  |
| <b>Project</b>              | The construction and operation of a steel injection station including the replacement of the pilot steel injection station, ladle equipment, control room and associated infrastructure at the Port Kembla Steelworks.  |
| <b>Location</b>             | Port Kembla Steelworks, Lot 1 DP 606434   |
| <b>Proponent</b>            | BlueScope Steel Limited   |
| <b>Date of Issue</b>        | TBC   |
| <b>General Requirements</b> | <p>The Environmental Assessment of the project must include:</p> <ul style="list-style-type: none"> <li>• an executive summary;</li> <li>• a detailed description of the following within the Port Kembla Steelworks holdings: <ul style="list-style-type: none"> <li>- historical operations;</li> <li>- existing and approved operations/facilities, including any statutory approvals that apply to these operations and facilities; and</li> <li>- existing environmental management and monitoring regime;</li> </ul> </li> <li>• a detailed description of the project, including the: <ul style="list-style-type: none"> <li>- need for the project;</li> <li>- alternatives considered;</li> <li>- likely staging of the project; and</li> <li>- plans of any proposed building works;</li> </ul> </li> <li>• a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment;</li> <li>• a detailed assessment of the key issues specified below, and any other significant issues identified in the risk assessment (see above), which includes: <ul style="list-style-type: none"> <li>- a description of the existing environment, using sufficient baseline data;</li> <li>- an assessment of the potential impacts of all stages of the project, including any cumulative impacts, taking into consideration any relevant statutory provisions, technical or policy guidelines (see below);</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 potentially 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>;</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>Air Quality</b> – including an air quality assessment on particulate emissions and emissions associated with fumes produced during the ladle reactions and details of the pollution control systems for the Steel Injection Station and the Basic Oxygen Steelmaking system;</li> <li>• <b>Soil and Water</b> – including a detailed assessment of potential soil, surface and groundwater impacts; potential soil contamination; details of proposed erosion and sedimentation controls; and details of the proposed site water and stormwater management, spill containment and bunding,</li> <li>• <b>Noise</b> – including construction, operation and traffic noise;</li> <li>• <b>Traffic</b> – including details of traffic types and volumes likely to be</li> </ul>  |

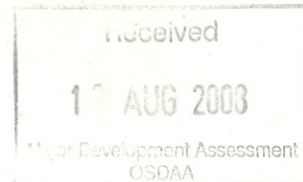
|                              |   |
|------------------------------|---|
|                              | <p>generated; assessment of predicted impacts on road safety and the capacity of the road network;</p> <ul style="list-style-type: none"> <li>• <b>Waste</b> – including the accurate estimates of the quantity and classification of all potential sources of liquid and non-liquid waste to be generated by the project and how this waste would be handled, processed and, if necessary, disposed of;</li> <li>• <b>Greenhouse Gas &amp; Energy Efficiency</b> – including: <ul style="list-style-type: none"> <li>- a quantitative assessment of the potential scope 1 and 2 greenhouse gas emissions of the project, and qualitative assessment of the potential impacts of these emissions on the environment; and</li> <li>- a detailed description of the measures that would be implemented on site to ensure that the project is energy efficient; and</li> </ul> </li> <li>• <b>Hazards</b> – including a preliminary hazard analysis in accordance with the Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis.</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 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.</p> <p>In particular you must consult with the:</p> <ul style="list-style-type: none"> <li>• Department of Environment and Climate Change;</li> <li>• Wollongong City Council.</li> </ul> <p>The consultation process and the issues raised during this process, must be described in the Environmental Assessment.</p>  |
| <b>Deemed refusal period</b> | 60 days   |

## Guidelines, Policies and Plans

| Aspect                                      | Policy /Methodology   |
|---|---|
| <b>Air Quality</b>                          |   |
|   | Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC, 2005)  |
|   | Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DECC, 2007)  |
|   | Protection of the Environment Operations (Clean Air) Regulation 2002  |
| <b>Soil and Water</b>                       |   |
| <i>Soil</i>                                 | Design Manual for Soil Conservation Works - Technical Handbook No. 5 (DoL, 1987)  |
|   | State Environmental Planning Policy No. 55 – Remediation of Land<br>Managing Land Contamination – Planning Guidelines SEPP 55 – Remediation of Land (DOP) |
| <i>Surface Water</i>                        | National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ, 2001)               |
|   | National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ, 2000)                       |
|   | Using the ANZECC Guidelines and Water Quality Objectives in NSW (DEC, 2006)   |
|   | Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC, 2004)   |
|   | Managing Urban Stormwater: Soils and Construction (Landcom, 2004)   |
|   | Managing Urban Stormwater: Treatment Techniques (EPA, 1997)   |
| <i>Groundwater</i>                          | Managing Urban Stormwater: Strategic Framework. Draft (EPA, 1996)   |
|   | Managing Urban Stormwater: Source Control. Draft (EPA, 1998)  |
|   | The NSW State Groundwater Policy Framework Document (DLWC, 1997)  |
|   | The NSW State Groundwater Quality Protection Policy (DLWC, 1998)  |
|   | The NSW State Groundwater Dependent Ecosystems Policy (DLWC, 2002)  |
|   | National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC, 1995)                                      |
| <b>Noise</b>                                |   |
|   | NSW Industrial Noise Policy (DEC, 2000)   |
|   | Environmental Criteria for Road Traffic Noise (DEC, 1999)   |
|   | Environmental Noise Control Manual (DEC, 1994)  |
| <b>Traffic and Transport</b>                |   |
|   | Guide to Traffic Generating Development (RTA, 2002)   |
|   | RTAs Road Design Guide (RTA, 1996)  |
| <b>Waste</b>                                |   |
|   | Waste Avoidance and Resource Recovery Strategy 2007 (DECC)  |
|   | Environmental Guidelines: Assessment Classification and Management of Non-Liquid and Liquid Waste (NSW EPA)   |
| <b>Greenhouse Gas and Energy Efficiency</b> |   |
|   | AGO Factors and Methods Workbook (AGO, 2006)  |
|   | Guidelines for Energy Savings Action Plans (DEUS, 2005)   |
| <b>Hazards and Risk</b>                     |   |
|   | The storage and handling of flammable and combustible liquids (Standards Australia, 2004, AS 1940-2004)   |
|   | Bunding and Spill Management (DEC, 2001)  |
|   | State Environmental Planning Policy No. 33 – Hazardous and Offensive Development  |
|   | Applying SEPP 33 – Hazardous and Offensive Development Application Guidelines (DUAP, 1997)  |
|   | Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis   |
|   | Multi-Level Risk Assessment (DUAP, 1997)  |



Your reference : SO8/O1094  
Our reference : FIL08/9873:DOC08/33819:GN  
Contact : Greg Newman, (02) 4224 4100



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

Dear Madam

**BLUESCOPE STEEL INJECTION STATION PROJECT  
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 has considered the details of the project as outlined in the document titled "*BlueScope Steel – Slabmaking Department Steel Injection Station Project, A Briefing Paper*" dated 30 June 2008.

Based on the information provided to date the DECC has identified the following key environmental issues in relation to the Steel Injection Station (SIS) project that should be included in the EA:

- Air quality
- Noise and vibration
- Waste management

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

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

6/8/08

**PETER BLOEM**  
**Acting Manager Illawarra**  
**Environment Protection and Regulation**

(N:\EPRD\PART 3A\EARS\DOC08-33819 BSL STEEL INJECTION STATION.DOC)

Att: A and B

cc: BlueScope Steel Ltd  
(Attention: Alan O'Brien)  
PO Box 1854  
WOLLONGONG NSW 2500

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



## **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
  - Noise and vibration
  - Waste Management
- 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 (No 6092) to:
  - carry out scheduled development work; and
  - carry out scheduled activities.

### **2. Air Quality**

The Briefing Paper discusses the Steel Injection System (SIS) ladle cover fume capture system including the fan and cyclone which will be used to direct / pre treat process fume prior to entering the BOS Secondary Dedusting System.

The Environmental Assessment (EA) must provide information on the SIS fume capture system and pollution controls from the SIS through the BOS secondary dedusting system including but not necessarily limited to:

- a) a thorough description of the BOS and the SIS air handling / pollution control system
- b) the anticipated fugitive emissions from the SIS fume capture system
- c) the pollutant composition of the ladle off gases entering the air handling system
- d) the anticipated particulate concentration and load from the ladle off gas entering the air handling system
- e) the particulate removal efficiency of the cyclone
- f) the anticipated particulate concentration and load to the BOS secondary dedusting system
- g) the design capacity of secondary dedusting system, its current condition, and ability to manage the additional air and pollutant flow from the SIS

- h) The anticipated concentration and change to particulate and pollutant emissions from the BOS secondary dedusting system stacks caused by the additional SIS fume capture
- i) The expected environmental performance of emissions from the BOS secondary dedusting system stacks against environment protection licence limits or Clean Air Regulation limits.

Note: DECC is proposing to seek post commissioning stack testing to verify the emissions reported above

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

The development should design the SIS and supporting equipment (for example, fan and cyclone) in accordance with the *NSW Government's Industrial Noise Policy (INP)*. Details of the sound power levels of the specific project equipment and a discussion of any anticipated changes in noise emissions must be provided.

### **4. Waste Management**

Details on all waste generated from the operation of the SIS project and the pollution control equipment must be provided as well as the proposed management systems for this material.

The development should be designed so that:

- It is in accordance with the principles of the waste hierarchy and cleaner production
- The handling, processing and storage of all materials used at the premises does not have negative environmental or amenity impacts (including odour and appropriate bunding)
- The beneficial reuse of all wastes generated at the premises are maximised where it is safe and practical to do so
- No waste disposal occurs on site except in accordance with an Environment Protection Authority licence.



## **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)

#### **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.

#### **Waste**

- Environmental Guidelines: Waste Classification Guidelines (DECC 2008).