

Environmental Program

LIGHT ESCAPE CONTROL

BBA-ENP-1000-1400-0015

Revision	Date	Revision Description	Prepared	Reviewed	Approved
A0	27 April 2007	Draft for BBA review	IW		
A1	9 May 2007	Draft for DTAE review	IW		
B0	31 Oct 2007	Revised after audit and issued for DTAE approval	IW	JD	JC
B1	30 Jan 2008	Revised following DTAE comment	JRD		

Table of Contents

1.	PURPOSE AND SCOPE	2
2.	OBJECTIVES	2
3.	TARGETS	2
4.	REGULATORY AND CONTRACTUAL REQUIREMENTS	2
5.	TECHNICAL DOCUMENTS	2
6.	KEY ISSUES	3
7.	OPERATIONAL CONTROLS	3
8.	SITE ENVIRONMENTAL PLANS	4
9.	CONTINGENCY MANAGEMENT	4
10.	EVALUATING PERFORMANCE	4
11.	REPORTING	4
12.	ATTACHMENTS	5

Operational Control Tables

Table OCO 15.1 Light Escape Control

1. Purpose and Scope

This Environmental Program describes Light Escape Control measures to minimise the impact of the design and construction of the Gunns pulp mill.

This Environmental Program forms part of the Bell Bay Alliance (BBA) Construction Environmental Management Plan (CEMP) and must be read in conjunction with the CEMP.

2. Objectives

1. Protect biodiversity values.
2. Through a comprehensive community involvement program, design and construct the project to the satisfaction of key stakeholders and the wider community.

3. Targets

1. No impact on listed migratory species, or other significant migratory or nocturnal species, related to the escape of light.
2. No complaints related to light escape.

4. Regulatory and Contractual Requirements

Refer to:

- CEMP Appendix B – Environmental Legislation Register
- CEMP Appendix C – Approvals Matrix
- CEMP Appendix D - Environmental Licences Register
- CEMP Appendix F – Environmental Commitments
- CEMP Environmental Obligations Register: GNS-OBL-1000-1400-001.

The Commonwealth Environment Protection and Biodiversity Conservation Act 1999 addresses the protection of listed migratory species. Light escape has the potential to impact on migration routes.

5. Technical Documents

The following background studies, research documents and assessments have been used to identify the key environmental aspects:

Reference	Document Title
http://www.gunnspulpmill.com.au/iis/	Bell Bay Pulp Mill Draft IIS and Appendices

The following technical documents have been used to assist in identifying appropriate operational controls:

Availability	Document Title
Thiess Management System	Lighting in the Workplace (TCC-HSE-SP069)

6. Key Issues

Refer to:

- CEMP Appendix G – Environmental Risk Assessment.

The reference documents and the environmental risk assessment have identified the following issues:

- Listed migratory species, particularly birds.
- Residents adjacent to any areas of nightshift works.

7. Operational Controls

The environmental outcomes to be achieved are:

- Project lighting used in a manner that does not cause unacceptable disturbance to the community or to listed migratory species, or other significant migratory or nocturnal species.

The operational controls for management of light escape during design and construction are set out below:

Table	Title
OCO 15.1	Light Escape Control

The operational controls include requirements and responsibilities for:

- Consultation.
- Approval requirements.
- Design of permanent works.
- Design of temporary works.
- Construction activities.
- Commissioning and handover.

8. Site Environmental Plans

- Refer to SEP Register.

Site Environmental Plans (SEPs) detail practical environmental management measures to be implemented at specific worksites to minimise potential impacts of construction activity on the environment and community. They are designed to provide more site specific detail than is included in the Environmental Program and Operational Control tables.

The information contained in the SEPs is presented in tabular drawing format. This is to make them easy for use by all BBA site personnel, consultants and subcontractors.

The controls set out in the SEPs are drawn from the Environmental Programs.

9. Contingency Management

The environmental risk assessment has identified the following circumstances which could occur outside normal operating conditions:

- Distress or injury to an animal.
- Complaint from a community member.

If these circumstances occur, the following contingency measures will be implemented, as appropriate:

- Consult with a fauna advisor to assist.
- Follow the Complaints Management procedure.

10. Evaluating Performance

The Operational Controls, together with the SEPs are used as the basis for evaluating performance.

Refer to:

- CEMP Appendix I – Internal Environmental Audit Schedule.
- CEMP Appendix J – External Environmental Audit Schedule.

Environmental Checklists are used for evaluating performance.

Refer to:

- BBA-CKL-1000-1400-015A Light Escape Control.

11. Reporting

Refer to:

CEMP Appendix K – Environmental Reporting Program.

12. Attachments

Not Used.