

These tables set out the operational controls required to achieve the objectives and targets set out in Environmental Program 6 Fire Management. BBA will, as a minimum, implement the control activities and performance measures set out below.

Table OCO 6.1 Fire Management

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Ref.	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
INDUCTION AND TRAINING							
1.	Design Consultant briefing	CEMP 10	The Design Consultants will be briefed on the design aspects of this Control Document	Design Director	Prior to start of design.	Briefing record	
2.	Project and site induction	CEMP 13	All employees, consultants and subcontractors involved will be inducted into the environmental aspects and controls related to this Control Document.	Construction Director or Project Manager, as applicable Start up Manager for Early Works	Prior to personnel commencing work on site	Induction records	
3.	Staff Construction Environmental Management Plan induction	CEMP 13	All relevant staff will be inducted into the requirements of the Construction Environmental Management Plan and all associated documents.	Construction Director or Project Manager, as applicable	Prior to staff commencing work on site	Induction records	

OPERATIONAL CONTROLS 6 FIRE MANAGEMENT

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4.	Awareness training	CEMP 13 CEMP 14	Conduct awareness instruction of relevant BBA staff, contractors and field personnel. Objectives of Fire Management awareness training include: <ul style="list-style-type: none"> • Matters requiring protection. • Fire risk and procedures. 	Project Manager	As per Training Plan	Training records	
5.	Briefings	CEMP 13 CEMP 14	Environmental briefings shall emphasize site-specific fire control requirements.	General Superintendent	Prior to working in a specific area	Record of Briefing. (eg SEP Briefing)	
6.	Design to minimise fire risk	LU1, Part 3, Sect 2, 2WF4.2, pg 78, (Seq pg 91)	Where practicable design to minimise the risk of assets and important values.	Design Director	Design of Permanent Works	Impact on assets and significant values avoided	
7.	Plan to minimise fire risk	LU1, Part 3, Sect 2, 2WF4.2, pg 78, (Seq pg 91)	Controlled vegetation burning for clearing and construction activities to be undertaken in accordance with a burn plan, to be compiled post clearing. Fire management measures should be shown in SEPs.	Environmental Manager	Post clearing - pre construction.	Impact on assets and significant values avoided	
8.	Co-ordination with other bodies	LU1, Part 3, Sect 2, 2WF4.2, pg 78, (Seq pg 91)	Approach and discuss fire management with relevant bodies including the Bell Bay Industrial Mutual Aid Group, Tasmanian Fire Service and Gunns Limited.	Environmental manager	Prior to operations commencing	Meeting records	
PRE-CONSTRUCTION							
9.	Fire Control Officer and First Officer	Project Requirement	Nominate a BBA Fire Control Officer and First Officer with appropriate fire control management experience and ensure that they undertake appropriate fire response training.	Environmental Manager	Prior to any operations commencing.	Training records	

Ref.	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
10.	Equipment availability	Project Requirement	Fire response equipment as detailed in Attachment 2 will be stored on site throughout the construction period.	Environmental Manager	Prior to any operations commencing	Inspection records	
CONSTRUCTION							
11.	Take native vegetation fire requirements into account	LU1, Part 3, Sect 2, 2WF3.1, pg 77, (Seq pg 90)	Any burning must take into consideration the fire requirements of native vegetation	General Superintendent	Prior to any burning commencing	Record of Briefing. (eg SEP Briefing)	
12.	Plan to minimise burning requirements	LU1, Part 3, Sect 2, 2AM3.1, pg 78, (Seq pg 91) LU2, Part 3, AM1.3, pg 20, (Seq pg 234)	Minimise the requirement for controlled burning by chipping or mulching cleared vegetation to the extent practicable.	General Superintendent	Prior to clearing vegetation	Fire impact avoided	
13.	Recognise regeneration requirements	Project Requirement	Fire prevention and controlled burning practices will recognise and protect the sensitivities and requirements of regenerating native vegetation.	General Superintendent	Ongoing	Regeneration requirements recognised	
14.	Design to minimise fire risk	Project Requirement	Design construction sites to minimise the risk of fire through construction of adequate fire breaks around construction areas. Fire breaks should minimise disturbance to native vegetation to the extent practicable.	General Superintendent	Design of construction sites	Fire impact avoided	
15.	Fire weather monitoring	Project Requirement	Implement weather monitoring procedures as detailed in Attachment 1.	General Superintendent	During construction	Records	
16.	Identify deployment locations	Project Requirement	In consultation with relevant bodies determine Emergency meeting points and deployment locations in the event of fire	Environmental Manager	Prior to construction	Sites identified	

OPERATIONAL CONTROLS 6 FIRE MANAGEMENT

Ref.	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
17.	Implement fire response procedures	Project Requirement	In the event of a fire, implement the response procedures described in Attachment 2, avoiding disturbance to native vegetation to the extent practicable.	Fire Control Officer and First Officer	As required	Response success	
INCIDENTS							

Ref.	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
18.	Potential environmental harm	CEMP incident response procedures	<p><i>Class 1: An actual adverse effect on the health or safety of human beings that is of a high impact or on a wide scale; an actual adverse effect on the environment that is of a high impact or on a wide scale; an actual loss or property damage of an amount, or amounts in aggregate, exceeding ten times the threshold amount (\$5,000); an environmental nuisance of a high impact or on a wide scale; an actual adverse effect on the health or safety of human beings that is not negligible; an actual adverse effect on the environment that is not negligible - cease relevant activities across all sites until the problem is fully understood and rectified; follow incident response procedures</i></p> <p><i>Class 2: The emission of a pollutant that unreasonably interferes with, or is likely to unreasonably interfere with, a person's enjoyment of the environment; any emission specified in an environment protection policy to be an environmental nuisance; an actual loss or property damage of an amount, or amounts in aggregate, exceeding the threshold amount (\$5,000) - cease relevant activities at the site of occurrence until the problem is rectified; follow incident response procedures</i></p>	Environmental Manager	Ongoing	Incident response records	

Ref.	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
19.	Potential permit breach	CEMP incident response procedures	<p>Class A: <i>A permit condition has been breached and either the environmental consequences are significant or the breach is due to a wilful or negligent failure to attempt to satisfy the condition – cease relevant activities across all sites until the problem is fully understood and rectified; follow incident response procedures</i></p> <p>Class B: <i>A permit condition has been technically breached but the intent of the condition has been or will be achieved and environmental consequences of the breach are not significant – cease relevant activities at the site of occurrence until the problem rectified; follow incident response procedures</i></p> <p>Class C: <i>Compliance with the permit has been raised as an issue but the intent and requirements established by the permit condition have been met – examine the significance and potential for corrective action; follow incident response procedures</i></p>	Environmental Manager	Ongoing	Incident response records	
EVALUATING PERFORMANCE							
20.	Inspections	CEMP 16	Inspect the condition of protection and control measures and arrange maintenance, as required.	Site Environmental Officer	Daily	Weekly checklist	
21.	Reporting	CEMP 17	Report on the implementation of this ENP in the environmental section of the monthly Project Report.	Environmental Manager	Ongoing	Monthly Report	

OPERATIONAL CONTROLS 6 FIRE MANAGEMENT

Ref.	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
22.	Assess monitoring results	CEMP 19	Evaluate and assess monitoring results against specified targets.	Environmental Manager	Ongoing	Reports	
23.	Corrective action	CEMP19	Take corrective action, where required.	Project Manager	As required	Action taken	

Revision Status

Revision	Date	Revision Description	Prepared	Reviewed	Approved
A0	7 May 2007	Draft for BBA review	SW		
A1	9 May 2007	Draft for DTAE review	IW		
B0	22 October 2007	Revised for submission to DTAE following auditor's comments	IW	JD	JC
B3	7 Jan 2008	Revised following DTAE comments	IW	JD	JC
B4	30 Jan 2008	Revised to include inspection frequency	JRD	JD	CF

Attachment 1: Weather Monitoring Procedure***Harvesting & clearing operations***

- Fire weather monitoring should be undertaken at 10:00, 12:00 & 14:00 hours every day during the fire permit period by a qualified observer, unless it is actually raining, and hourly from 10.00 hours on days that a Severe Weather Warning has been issued.

Operation Closure

Harvesting and clearing operations must cease when:

Conventional harvesting & clearing operations (Wet forest types)

- The Fire Danger Index (FDI) is 20 or on a day when a Fire Weather Warning has been issued, the measured relative humidity falls to 30% or below. Operations may recommence when weather conditions have eased and have fallen below the stated closure criteria.

Conventional harvesting & clearing operations (non Wet forest types)

- The Fire Danger Index (FDI) is 24 or on a day when a Fire Weather Warning has been issued, the measured relative humidity falls to 30% or below. Operations may recommence when weather conditions have eased and have fallen below the stated closure criteria.

Exempt low risk activities

- Exempt activities from operational closure are those involving mechanical work on cleared ground or pasture where there is no residual vegetation.

Attachment 2: Bell Bay Alliance – Fire Management Procedures

<p>Objective To achieve timely and effective response to fire.</p>															
<p>Display of these procedures These procedures should be prominently displayed at any location where fire response personnel will be deployed.</p>															
<p>Response Equipment The following equipment, in quantities sufficient to respond to any fire, must be stored and maintained at all clearing and construction operations:</p> <ul style="list-style-type: none"> ▶ Personal protective equipment for all personnel involved in fire suppression, including: <ul style="list-style-type: none"> • Fire overalls and jacket; • Smoke goggles; • Smoke mask/respirator; • Fire fighting helmet; and • Ear plugs. ▶ Fire fighting equipment including: <ul style="list-style-type: none"> • A tank of at least 300 litres capacity full of water and designed to be transported within the operation area; • A self-priming centrifugal pump producing a pressure of at least 400 KPA at shut off, with fittings and 60 metres of hose; • 2 rakehoes; • Either a knapsack or 1 charged air-water fire extinguisher with 9 litres of foam/water to be carried on each machine; • Regular maintenance of mufflers, spark arresters, running gear and removal of debris from manifolds and base plates • 1 set of Fire Weather Observer's instruments and log book. ▶ General maps (SEP) including details of: <ul style="list-style-type: none"> • Roads and tracks; • Firebreaks; • Waterpoints; • Areas of special significance; and • Names of adjoining landowners, with telephone and address for contact. <p>Following use for a fire, non-disposable equipment must be returned to the site location and disposable equipment must be replaced.</p>															
<p>Actions Actions for response to a fire are:</p> <ul style="list-style-type: none"> ▶ Assess the safety risk to exposure of personnel to fire. ▶ Ensure appropriate treatment and/or removal of any personnel from the immediate area ▶ In the event of small fires and where safe to do so trained personnel to apply fire suppression techniques. ▶ Notify the BBA Fire Control Officer ▶ Respond to the directions and instructions of the Fire Control Officer. <p>Actions following a fire are:</p> <ul style="list-style-type: none"> ▶ Fire Control Officer to prepare a written statement on the incident and actions taken to minimise environmental harm. 															
<p>Emergency contacts</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">BBA Fire Control Officer:</td> <td style="width: 20%; text-align: center;">..... Name</td> <td style="width: 40%; text-align: center;">..... Emergency contact No.</td> </tr> <tr> <td>Backup</td> <td></td> <td></td> </tr> <tr> <td>BBA First Officer:</td> <td style="text-align: center;">..... Name</td> <td style="text-align: center;">..... Emergency contact No.</td> </tr> <tr> <td>Tasmanian Fire Service</td> <td></td> <td style="text-align: center;">000</td> </tr> <tr> <td>Emergency contact:</td> <td></td> <td style="text-align: center;">Emergency contact No.</td> </tr> </table>	BBA Fire Control Officer: Name Emergency contact No.	Backup			BBA First Officer: Name Emergency contact No.	Tasmanian Fire Service		000	Emergency contact:		Emergency contact No.
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