

PRESCRIBED FIRE BURN PLAN

	Year 1:	Year 2:	Year 3:
Reference Number:			
Client Number:	6844		

Complexity Rating: Type III

Submitted by:

Name:	Name Mike Daigle Min. of Forests and Range	Date:	Mar. 19, 08
	(Company or Agency and applicant name)		
Signature:		Certification Level:	I.C. 3

Reviewed by:

Name:	Name	Date:	
Signature:		Certification Level:	

Prescribed Burn Plan Accepted:

Designated Forest Official – Protection

Name:	Name	Date:	
Signature:		Certification Level:	

Extension Accepted:

Year 2	Name:	Name	Date:	
	Signature:		Certification Level:	
Year 3	Name:	Name	Date:	
	Signature:		Certification Level:	

**This Burn Plan Is Supported By A Prescription Which
Has Been Approved By the Land Manager**

For help with this form, please visit our web site:

[HTTP://WWW.FOR.GOV.BC.CA/PROTECT/BURNING/BURNPLANHELP.HTM](http://www.for.gov.bc.ca/protect/burning/burnplanhelp.htm)

PRESCRIBED FIRE BURN PLAN

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X	B. Fuel/Stand Description
X	C. Prescribed Burn Objectives and Desired Fire Effects
X	D. Values at Risk
X	E. Public Relations and Information Strategy
X	F. Prescribed Burn Operations
N/A	G. Prescribed Burn Budget Estimates (if required)

Attached Schedules

N/A	1. Prescribed Fire Prescription (either 1a or 1b)
X	2. Prescribed Fire Complexity Worksheet & Rating Guide (mandatory)
N/A	3. Organization Chart (if required)
X	4. On Site Communications Plan (if required)
X	5. Medical Operations Plan (if required)
X	6. Safe Work Procedures (if required)
X	7. Information Plan – Notification Checklist (if required)
X	8. Information Plan – Public Notice (if required)
X	Information Plan - Public Notice – Radio Station (if required)
X	9. Traffic Plan (if required)
N/A	10. Security Plan (if required)
X	11. Prescribed Fire “Go-No-Go” Checklist (mandatory)
X	12. Burn Plan Map (mandatory)
N/A	13. Stand/Fuels Description Map (if required)

PRESCRIBED FIRE BURN PLAN

A. Project Overview

Location:

Geographic Location	Sunflower Hill	Lat/Long	49deg38.1 115deg59
Base Map/Opening	82G061-054	Forest Region	Southern Interior
Fire Centre	Southeast	District	Rocky Mountain
Zone	Cranbrook	TSA	Cranbrook

Legal:

Land Status	Crown Land	Tenure /Licence	
Licencee/Owner		Phone Number (24hr.)	
Land Description	Within Kimberley City Limits	Plan Number	

Information:

Burning Supervisor	Mike Daigle	Phone Number (24hr.)	250-489-5280
Size	56 ha	Photo Line Number	

General Description:

Ecosystem restoration of Sunflower Hill within the Kimberley City Limits.

Fuel /Stand Description

1) Biogeoclimatic Subzone	IDF dm 2
2) Site Series	03
3) FBP Fuel Type	C-7
4) Forest Cover	Fd Py
5) Slope	45 (10-60)
6) Aspect	South
7) Elevation	975 -1090 meters
8) Slope Position	Valley bottom
9) Valley Orientation	West -East
10) Duff Depth	0-8cm
11) Soil Texture (predominant)	loamy sand
12) Fuel Loading	Low with small areas of moderate logging slash

Additional Comments:

Western 1/3 of burn area has been harvested by Tembec CP 445 block 587.

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Prescribed Burn Objectives and Desired Fire Effects

Summary

The burn is consistent with objectives set out in the approved Stand management Prescription for Sunflower Hill and the Site plan for CP 445 block 587. The reduction of slash loading from harvesting treatments and grassland ecosystem restoration are primary objectives of the proposed burn. Underburning the untreated areas will serve to rejuvenate the bunch grass and shrub communities. A small portion of Tec Cominco land has been included to use logical burn boundaries that reduce the need for new bladed fire guards and approval has been obtained for this work.

Weather

Required weather conditions for burn day are Sunny or mostly sunny skies with temps above 15 and humidities below 35%. Ideally winds > 5km and < 20 km from the southwest.

Fire Weather Indices/Codes

The following ranges of indices and weather conditions will be used as guidelines to try to increase the overall success of the burn.

Ranges FFMC 83-93 DMC 10-36 DC >100-500

Fuel Moisture Content

The preferred fuel moisture content is 7 - 11% in < 2.5 diameter fuels.

Fire Behaviour to Meet Desired Fire Effects

The objective is a low to moderate intensity burn. Rank 2 or 3 fire will result in the desired effects.

Smoke Management

Venting indices are to be in the GOOD category for the Day of light-up and at least forecast to be FAIR the day after ignition. This may be altered only by an exemption from the Ministry of Environment Air quality division.

Values at Risk

Threatened Areas (outside the burn area)

The newly developed Forest Crown Subdivision is adjacent to the burn area to the north. Marysville (South Kimberley) is 1 km to the east of the east edge of the burn area. The Kimberley golf club is across the highway from the eastern 1/3 of the burn.

Areas to be Protected (inside the burn area)

There is a power/ phone line along a portion of the south boundary and poles will be protected from fire before ignition by removal of flammable materials around these structures. Several legal survey corner markers are located within the burn area and measures will be taken to ensure these markers are not damaged during burning. Wildlife trees may require pre-ignition treatment to reduce the potential for loss. The Kimberley Nature Park Society will be doing this on a volunteer basis.

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Public Relations and Information Strategy

An ad has been placed in the local news advertiser and Forest Crown residents will be notified by their Strata associations. The Burn boss has walked the area with representatives from the Nature Park Society and a resident of Forest Crown. A mailout notice may be done to advise the larger local population of the intended burn.

Prescribed Burn Operations

Pre-Burn preparations

Control points will be identified on the ground with signs. Wildlife trees identified for protection will be treated as well as fences. Water sources will be checked for volume and availability. Traffic control will be set up on the highway to allow operations to continue while causing minimal impact to traveling public.

Ignition and Control Plan

Ignition Plan:

Ignition will not take place unless adequate pre-org and pre-burn preparations have been done.

Ignition will not take place unless the required resources are on-site and available.

Ignition will not take place unless the area has been patrolled for people not involved with the burn.

No lighting will start until everyone on-site and involved with the burn has been notified, and everyone is accounted for and their location known.

No lighting will start or take place without being instructed to do so by the Burn Boss or Assistant Burn Boss.

Once all of the foregoing conditions have been met:

Southeast Fire Centre will be contacted as ignition is initiated.

All ignition activities will be coordinated, controlled, and monitored by the Burn Boss or Assistant Burn Boss.

Light-up will be conducted using handlighting.

Based on the prevailing wind direction, handlighting will start at the downwind end of the area to be burned. Then, when enough blackline has been built up on the downwind end and along the flanks, the crew will work its way toward the upwind end of the area to be burned.

Control Plan:

Successful control of the burn is very much dependant upon a controlled ignition. The Ignition Plan is stated above.

In addition, to suppress spotting or escapes, there will be appropriate resources on-site and available.

In addition, water sources will have been identified to set-up pumps, refill water trucks.

Suppression crews will be formed from the FS and Contract Crew staff, and will patrol the perimeter as hand-lighting is taking place, to look for any spotting or escapes over the guard perimeter.

Suppression Crews will respond to any and all reports of escapes. All escapes and suppression work will be monitored closely, and further resources will be requested if required.

The burn area will be patrolled regularly after ignition has taken place, until there is no threat of escapes.

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Fire Suppression Resources at Burn Area for Ignition and Control					
Two contract control crews (3 person crew with 4x4 pickup 100 gal. water tank pump, hose and tools) will be on site during ignition to action any escapes. Kimberley Fire Department has committed to having their interface fire engine on site with a crew (this is over and above required resources as crew will leave if a structure fire occurs in Kimberley). The handlight persons will also be equipped with a small water delivery system and hand tools.					
Adult Persons	Hand Tools	Pumps	Hose	Heavy Equipment	Other
15	15	3	600 feet		

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Mopup and Patrol Objectives					
(All fires will be extinguished 30 days after ignition.)					
Mop up will be done on a 20 meter distance from the burn boundary. The priority areas for mop-up will be identified in the morning after the day of ignition.					
Adult Persons	Hand Tools	Pumps	Hose	Heavy Equipment	Other
4	4	2	600 feet	N/A	

Patrol Plan

Depending on weather conditions the burn will be patrolled a minimum of once a week. The district goal is that total extinguishment will be achieved by June 1, 2008.

Escape Fire Contingency Plan					
Nearby roads and fence lines will be used as secondary control lines. Southeast Fire Centre will be advised of any significant escapes.					
Total Resources Required in Event of a Fire Escape					
Control crews will be dispatched to any escape.					
Adult Persons	Hand Tools	Pumps	Hose	Heavy Equipment	Other
6	6	2	600 feet	Heavy equipment may be available at Forest Crowne Sub-division.	Helicopter with bucket could be dispatched from Cranbrook

Prescribed Burn Budget Estimates (if required)

Monitoring

Monitoring

On site weather will be checked and recorded hourly on site on the day of the burn..

Documentation

Notes on site will be kept of operations and Radio communications with the office will also be recorded.

SCHEDULES

Schedule 1 – Fire Prescription/Addendum

See Attached Stand Management Prescription.

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Schedule 2 – Prescribed Fire Complexity Worksheet and Rating Guide

Complexity Element	Weighting Factor	Complexity Factor	Total Value
Safety	5	1 - Easy	5
Threats to Boundaries	5	1 - Easy	5
Fire Behaviour	5	1 - Easy	5
Objectives	4	1 - Easy	8
Size of Burn Organization	4	2 - Moderate	4
Improvements within Burn Area or Adjacent to Burn Area	3	2 - Moderate	6
Environmental/Timber/Cultural or Social Values	3	2 - Moderate	3
Air Quality Values/Issues	3	2 - Moderate	3
Logistic Considerations	3	1 - Easy	6
Political Considerations	2	2 - Moderate	2
Tactical Operations	2	1 - Easy	2
Multiagency Involvement	1	1 - Easy	1
Project Total			50

Type III Burn Boss Required for Projects with Rating of 40 - 51

Type II Burn Boss Required for Projects with Rating of 52 - 84

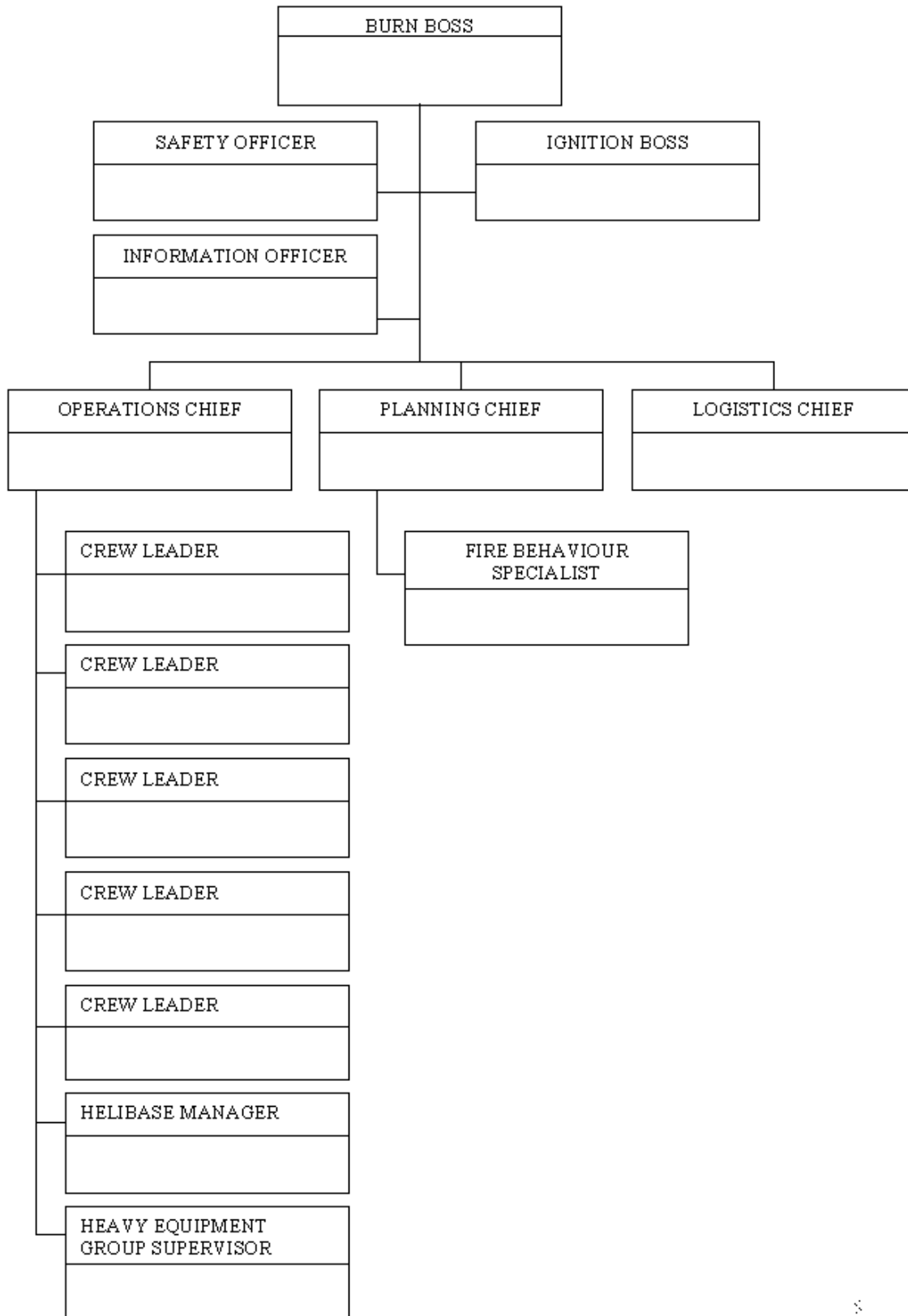
Type I Burn Boss Required for Projects with Rating of >84

The Prescribed Fire Complexity Analysis provides a method to assess the complexity of the Planned prescribed fire project. The analysis incorporates an assigned numeric rating complexity value for specific complexity elements that are weighted in their contribution to overall complexity. The weighted value is multiplied by the numeric rating value to provide a total value for that element. All elements are then "added to generate the total project complexity value. Breakpoint values are provided for low & moderate and high complexity elements." See help section for deriving rating factors.

<http://www.for.gov.bc.ca/protect/burning/complexityratingchart.htm>

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Schedule 3 - Organization Chart (if required)



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Schedule 4 – On Site Communications Plan

On site communications will be on the SILVER channel with contact to the office on the Black Repeater.

Schedule 5 – Medical Operations Plan

SEE ATTACHED

Schedule 6 – Safe Work Procedures

Drip torch crew instructions attached.

Schedule 7 – Information Plan – Notification Checklist (use ctrl + tab to move to next column)

Contact	Notified		Telephone	Fax
SEE ATTACHED				

Schedule 8 – Information Plan – Public Notice

SEE ATTACHED

Information Plan – Public Notice – Radio Station

Public notice will be provided to local radio stations on the day of the burn.

Schedule 9 – Traffic Plan

Traffic control will be in place on St. Marys road along the Southt side of the burn area. Under the direction of the burn boss or assistant traffic will be slowed or stopped for short periods as conditions or activites require. The Ministry of Transportation and Highways has been consulted and input incorporated into the plan.

Schedule 10 – Security Plan

NONE REQUIRED

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Schedule 11 – Prescribed Fire “Go-No-Go” Checklist

Project Name Sunflower Hill Ecosystem Restoration Burn	Burn Boss Mike Daigle		
<u>Checklist Item:</u>		YES	NO
1.	Is burn plan complete and approved? Reference number	<input type="checkbox"/>	<input type="checkbox"/>
2.	Are all fire prescription specifications met?	<input type="checkbox"/>	<input type="checkbox"/>
3.	Are all smoke management prescription specifications and requirements met? Has the public information and communications plan been fully implemented?	<input type="checkbox"/>	<input type="checkbox"/>
4.	Is the current and projected fire weather forecast favourable?	<input type="checkbox"/>	<input type="checkbox"/>
5.	Are all personnel, required in the prescribed burn plan, on site and qualified for assigned positions?	<input type="checkbox"/>	<input type="checkbox"/>
6.	Have all personnel been briefed on the prescribed burn plan requirements?	<input type="checkbox"/>	<input type="checkbox"/>
7.	Have all personnel been briefed on the project safety plan, including known hazards, and L.C.E.S. (Lookouts, Communications, Escape Routes, and Safety Zones)?	<input type="checkbox"/>	<input type="checkbox"/>
8.	Is all the required equipment in place and in working order?	<input type="checkbox"/>	<input type="checkbox"/>
9.	Are available resources including backup, adequate for containment of potential escapes? Are the assigned resources in place?	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is the test burn adequate for assessing the burn’s potential?	<input type="checkbox"/>	<input type="checkbox"/>
11.	In your opinion, can the burn be carried out according to plan and will it meet the planning objectives?	<input type="checkbox"/>	<input type="checkbox"/>
12.	Is there an adequate contingency plan developed? Has it been communicated to assigned supervisors?	<input type="checkbox"/>	<input type="checkbox"/>
13.	Have notifications been completed?	<input type="checkbox"/>	<input type="checkbox"/>

If all 13 questions have been answered “YES”, you may proceed with ignition.

Revised 2001-02-12

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Schedule 12 – Burn Plan Map

Attach map to printed copy.

Schedule 13 – Stand/Fuels Description Map

N/A