

PRESCRIBED FIRE COMPLEXITY RATING WORKSHEET

Complexity Element		Complexity Value		
		L	M	H
Primary Factors	1. Life and Safety	X		
	2. Threats to Boundaries	X		
	3. Management Organization		X	
	4. Political Concerns		X	
	<i>SUBTOTAL OF PRIMARY FACTORS</i>	2	2	
Secondary Factors	5. Objectives	X		
	6. Fuels and Fire Behavior		X	
	7. Air Quality Values	X		
	8. Improvements	X		
	9. Logistics	X		
	10. Natural, Cultural and Social Values	X		
	11. Tactical Operations		X	
	12. Interagency Coordination		X	
<i>SUBTOTAL OF SECONDARY FACTORS</i>		5	3	
TOTAL COUNT OF COMPLEXITY VALUES		7	5	

QUALIFICATIONS DETERMINATION TABLE:

	Prescribed Fire Burn Boss Type 2 (RXB2)	Prescribed Fire Burn Boss Type 1 (RXB1)		
Primary Factors rated "H"	Less than 2	2 or more		
	AND	OR		
Total Count rated "H"	Less than 4	4 or more		
		OR		
	Minimum required on all prescribed fires.	When deemed appropriate by the agency administrator or unit Fire Management Officer.		
Prescribed Fire Burn Boss Level Indicated (check one):		<input type="checkbox"/> RXB1	<input type="checkbox"/> RXB2	<input checked="" type="checkbox"/> X

PREPARED BY: /s/ Scott Bressler

DATE: 09-14-01

APPROVAL BY: _____
Agency Administrator

DATE: _____

REVIEWED BY: _____
(Burn Boss immediately prior to burning)

DATE: _____

APPENDIX #5

FIRE MODELING OUTPUTS (Fuel Model 9)

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**APPENDIX #6
AGENCY ADMINISTRATOR
GO/NO-GO PRE-IGNITION APPROVAL**

Prescribed Fire Name: _____

Date: _____

A) Instructions

The Agency Administrator's Go/No-Go Pre-Ignition Approval is the first of two GO/NO-GO decisions that must be completed before a prescribed fire can be implemented. The Agency Administrator's Go/No-Go Pre-Ignition Approval is the final management approval prior to execution of the prescribed fire and evaluates whether compliance requirements, prescribed fire plan elements, and internal and external notifications have been completed. The Agency Administrator's Go/No-Go Pre-Ignition Approval is valid for 30 days. If ignition of the prescribed fire is not initiated prior to expiration date determined by the Agency Administrator, a new approval will be required.

B) Key Elements

1. Is the prescribed fire plan up to date?
Hints: changes, amendments, seasonality.

2. Have all compliance requirements been completed?
Hints: cultural, threatened and endangered species, smoke management.

3. Is risk management in place and the residual risk acceptable?
Hints: Prescribed Fire Mitigation Table and Prescribed Fire Complexity Rating Guide completed with rationale and mitigations identified.

4. Will all elements of the prescribed fire plan be met?
Hint: preparation work, mitigation, weather, organization, prescription.

5. Have all internal and external notifications and media releases been completed?

6. Are key park staff fully briefed, and understand the implementation of the prescribed fire?

7. Other?

Recommended by: _____ Date _____
FMO/Burn Boss

Approved by: _____ Date _____
Park Superintendent

Approval expires: _____ (May not be more than 30 days after approved date.)
Date

APPENDIX #7
Prescribed Fire Operations
GO/NO-GO Checklist

Prescribed Fire Name:

Date:

	YES	NO
- Has Agency Administrator GO/NO-GO Pre-Ignition Approval been approved?		
Narrative/Comments:		
- Are current and forecasted weather conditions favorable for execution of the prescribed fire? (hints: spot weather, dialogue with fire weather forecaster, climatological analysis complete)		
Narrative/Comments:		
- Have all key personnel listed on the Incident Action Plan (IAP) been briefed with an opportunity to give feedback? (hints: safety, objectives, assignments)		
Narrative/Comments:		
- Has all pre-burn preparedness work been completed? (hints: fuels and weather observations, signs, closures, smoke management, unit preparation)		
Narrative/Comments:		
- Are all equipment and supplies required in the prescribed fire plan in place and functional? (hints: pumps, radios, ignition devices, hose lays, vehicles, aviation, etc.)		
Narrative/Comments:		
- Are all holding resources described in the IAP committed and can be on-scene within specified time frames?		
Narrative/Comments:		
- Are all personnel certified for their assigned positions? (hints: Check Red Cards)		
Narrative/Comments:		
- There are no extenuating circumstances that preclude successful completion of this project? (hints: regional & national preparedness, unusual circumstances, unusual drought, outstanding issues, other fires, recent fire escapes, etc.)		
Narrative/Comments:		
IF ALL BOXES HAVE BEEN CHECKED "YES" YOU MAY PROCEED WITH THE TEST FIRE.		

	YES	NO
TEST FIRE DOCUMENTATION AND RESULTS:		
- Observed Fire Behavior within Prescription?		
Narrative/Comments:		
- Test fire was successful?		
Narrative/Comments:		
- Are all prescription parameters in the prescribed fire plan favorable for implementing the project? (hints: each plan element, pre-burn, smoke management, cooperators coordination)		
Narrative/Comments:		
IF LAST 3 BOXES ARE ALL "YES", YOU MAY PROCEED WITH PRESCRIBED FIRE.		

Signatures

<u>RX BURN BOSS:</u>	<u>IGNITION SPECIALIST:</u>
<u>HOLDING OPERATIONS:</u>	<u>DATE:</u>

APPENDIX #8
IAP/BRIEFING GUIDE

- I. Present Handouts**
 - A. Map of Burn**
 - B. Organization Chart**

- II. Describe Area Of Burn**
 - A. Vegetation Type**
 - B. Acreage**
 - C. Slope**
 - D. Roads/Access**
 - E. High Values at risk**
 - F. Water Sources-natural, tanker and hydrants**
 - G. Natural/Manmade barriers**

- III. Weather Forecast- Use National Weather Service "Forestry" and "Smoke Management" Forecasts for applicable Zones. Use "Fire Weather Special Request" Form if updates are deemed necessary.**
 - A. Wind direction and Speed**
 - B. Relative Humidity**
 - C. Temperatures**
 - D. Predicted Changes**

- IV. Organization**
 - A. Organization Chart - Location on Map**
 - B. Equipment - tankers, refueling, etc.**
 - C. Fire Monitoring**
 - D. Any other resources**
 - E. Transition Fire Plan**

- V. Firing Sequence**
 - A. Test fire**
 - B. Type and Sequence of Firing**

- VI. Radio Assignments**
 - A. Given Day of Burn**
 - B. Communication Plan**

- VII. Safety**
 - A. Winds**
 - B. Escape Routes and Safe Zones**
 - C. Hazards - crew and equipment (wildlife, research plots, trash, etc.)**
 - D. Personal Protective equipment (PPE)**
 - E. Refueling - fuel handling, gloves, spilling, etc.**
 - F. Activation of emergency and headlights on major roads**
 - G. Other public safety considerations**

- VIII. Comments and Questions Period**

APPENDIX #9

ADEQUATE HOLDING RESOURCES WORKSHEET

Project Name: Stegall Mountain RX Fuel Models Inside Project Area: 9
 Prepared By/Date: Scott Bressler 09-14-01 Fuel Models Outside Project Area: 9

Characteristics	Output type	Modeling Predictions Inside Project Area	Modeling Predictions Outside Project Area	Unit of Measure
CRITICAL FIRE INPUTS	1 Hr Fuel Moisture		5	%
	Wind Speed		5	MPH
	Slope		45	%
KEY FIRE BEHAVIOR OUTPUTS	Rate of Spread		13	ch/hr
	Fire line Intensity		89	BTU/ft/sec
	Flame Length		3.6	Feet
	POI		60	%
	Spotting Distance			Miles
	Scorch Height			Feet
FIRE SIZE	Projection Time		1	Hours
	Forward Spread		12.5	Chains
	Backward Spread		0.6	Chains
FIRE CONTAINMENT	Method Of Attack		Rear	Head/Rear
	Max Escape Target		200	Acres
	Max Containment Time		10.5	Hours
	Total Line Building Rate		28	Ch/hr

- Choose worst case total line building rate above that is needed for containment of slop over or spot fire : 28ch/hr
- Estimate potential number spot fires or slop overs at on time: 1
- TOTAL LINE BUILDING RATE NEEDED (multiply line 1 times line 2) 28ch/hr
- Production Rates: Ease of Access: POOR-FAIR-GOOD-EXCELLEN(circle)
 Fuel Resistance to Control LOW- MODERATE-HIGH-EXTREME(circle)
 (refer to fire line handbook) Hand Crew Production 8 ch/hr
 Engine Production (Crew of 2) 25 ch/hr
 Dozer Production (Type) ch/hr

On Site Organization	Total # Planned On Burn	Total # Available for Spot Fire or Slop Over Control		Line Building Production Rates		Spot Fire or Slop Over Line Building Capacity
Overhead	6	3	X	8	ch/hr	24
Firing Crew	10	4	X	8	ch/hr	32
Holding	15	6	X	8	ch/hr	48
Other Personnel			X	8	ch/hr	
Engine (Crew of 2)	2	1	X	25	ch/hr	25
Dozer (Size)			X		ch/hr	
Other Equipment			X		ch/hr	

5. TOTAL SLOP OVER OR SPOT FIRE LINE BUILDING RATE CAPACITY 124 ch/hr

6. DETERMINATION OF ADEQUATE HOLDING RESOURCES (Line 5 minus Line 3) 96 ch/hr

If number on line 6 is positive then adequate holding forces will be available. If number is negative, more holding resources are needed to control potential spot fires or slopovers.

**APPENDIX #10
POST-PROJECT EVALUATION**

Instructions for Completion of Post-Project Evaluation Form

This form is to be completed and submitted for review within 30 days of declaring the project complete.

Block 1 Self-explanatory

Block 2 Copy of the Project Objectives as listed in the Project Plan.

Block 3 Give quantitative results of how well objectives were met, i.e. % of 1 hour and 10 hour fuels removed, % of burn area with fuels reduced, % of area with acceptable/unacceptable scorch, etc.

Block 4 Give a short narrative of problems encountered and suggestions for improving or refining operations and prescriptions i.e. firing pattern, equipment limitations, drought index, effectiveness of barriers.

Block 5 Self-explanatory - for providing feedback to the Program

Block 1)

Individual Leading Evaluation: _____

Management: _____ **Project**

Name: _____

Acres Treated: _____ **Fire**

Number: _____

Total Cost:

Cost/Acre: _____

(Block 2)

Objectives:

(Block 3)

Results:

(Block 4)

Problems Encountered, Methods to Improve Next Operation:

Review & Signature:

Burn Boss: _____

Comments:

FMO: _____

Comments:

