USDA-FOREST SERVICE FS-2500-8 (6/06)

Date of Report: 8/30/2012

BURNED-AREA REPORT
(Reference FSH 2509.13)

PART I - TYPE OF REQUEST

A. Type of Report

[X] 1. Funding request for estimated emergency stabilization funds
[ ] 2. Accomplishment Report
[ ] 3. No Treatment Recommendation

B. Type of Action

[X] 1. Initial Request (Best estimate of funds needed to complete eligible stabilization measures)

[ ] 2. Interim Report #____
[ ] Updating the initial funding request based on more accurate site data or design analysis
[ ] Status of accomplishments to date

[ ] 3. Final Report (Following completion of work)

PART II - BURNED-AREA DESCRIPTION

A. Fire Name: Hello & Lick Fires, Branch II of Fort Complex

B. Fire Number: CA-KNF-005659

C. State: CA

D. County: Siskiyou

E. Region: 06

F. Forest: Rogue River-Siskiyou

G. District: Siskiyou Mountains

H. Fire Incident Job Code: P5G5F7

I. Date Fire Started: 08/05/2012

J. Date Fire Contained: 8/24/2012

K. Suppression Cost: $261,490.00 for Branch II between 8/22 – 8/27 (after Branch II of Fort Complex was broken out from the rest of the Fort Complex (i.e. Goff Fire). Do not have the costs for Hello and Lick fire suppression between 8/5-8/21 while it was combined with the rest of the Fort Complex.

L. Fire Suppression Damages Repaired with Suppression Funds
1. Fireline waterbarred (miles): 0.7 miles dozer; 8.7 miles handline
2. Fireline seeded (miles): 0.7 miles dozer
3. Other (identify):

M. Watershed Number: 1710030901

N. Total Acres Burned: 1380
NFS Acres(1380) Other Federal (0) State (0) Private (0)

O. Vegetation Types: Douglas-fir, ponderosa pine, sugar pine, white fir, knobcone pine, canyon live oak, incense cedar, pacific madrone, greenleaf manzanita

P. Dominant Soils: Loamy-skeletal mixed mesic family of Typic Xerochrepts; loamy-skeletal mixed mesic family of Entic, Ultic, Haploxerolls; loamy-skeletal mixed frigid family of Ultic Haploxeralfs; clayey-skeletal serpentinitic mesic family of Mollic Haploxeralfs

Q. Geologic Types: Highly altered fault zone metamorphic, mafic, and locally ultramafic rocks; undifferentiated Klamath Mountains Province rocks; highly to moderately fractured Applegate Group triassic fine-grained meta-sedimentary and met-volcanic rocks; Serpentine & Peridotite

R. Miles of Stream Channels by Order or Class: Class 1: 0.6 miles; Class 3: 1.0 miles; Class 4: 2.2 miles

S. Transportation System

Trails: 1.7 miles Roads: 1 miles

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 1065 (low) 266 (moderate) 20 (high)

B. Water-Repellent Soil (acres): 46

C. Soil Erosion Hazard Rating (acres):
285 (low) 257 (moderate) 838 (high)

D. Erosion Potential: 4.36 tons/acre

E. Sediment Potential: 2067 cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years): 5-10

B. Design Chance of Success, (percent): 85

C. Equivalent Design Recurrence Interval, (years): 25

D. Design Storm Duration, (hours): 24

E. Design Storm Magnitude, (inches): 7

F. Design Flow, (cubic feet / second/ square mile): 75

G. Estimated Reduction in Infiltration, (percent): 5-10

H. Adjusted Design Flow, (cfs per square mile): 78-83

PART V - SUMMARY OF ANALYSIS

A. Describe Critical Values/Resources and Threats:

Human Life and Safety

Human life and safety on or in close proximity to burned NFS lands.

Forest Road 1040 is a main forest route following the Middle Fork Applegate River, with steep, forested and rocky slopes above it. The Lick Fire burned down to this road and there is an increased risk of rock fall and snags falling into the road.

Forest Trail #959 near the Red Buttes Wilderness, and Forest Trails #954 and #957 within the Red Buttes Wilderness, are part of a greater trail system that is also tied to the Pacific Crest Trail. These three trails are within the burn area where there is now an increased risk of rolling rock and falling snags on steep slopes.

- BAER Risk Assessment – Very High (Likely Probability of Damage or Loss and Major Magnitude of Loss).

Property

Buildings, water systems, utility systems, road and trail prisms, dams, wells or other significant investments on or in close proximity to the burned NFS lands.

Forest Road 1040 between mile post 3.92 and mile post 4.76 occurs immediately adjacent to and downhill of the burn perimeter. Seven 18" & 24" culverts are at risk of plugging from ash and sediment coming from directly upslope, which would have the potential to create erosion and sedimentation issues in the Middle Fork of the Applegate River across the road from the burn area.

- BAER Risk Assessment – High (Likely Probability of Damage or Loss and Moderate Magnitude of Loss)

B. Emergency Treatment Objectives:

The goals of the burned area emergancy rehabilitation are to:

- Reduce threats to personal injury and/or human life on Forest Road 1040 and Trail #'s 959, 957, and 954, by warning users of potential hazards in the burned area so that they have a heightened awareness while traveling through the area.
- To minimize damage to Forest Road 1040 from plugging culverts by maintaining drainage through the placement of straw wattles to capture ash and sediment.

C. Probability of Completing Treatment Prior to Damaging Storm or Event:

Land **N/A** % Channel **N/A** % Roads/Trails **85** % Protection/Safety **85** %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Roads/Trails	85	75	70
Protection/Safety	85	85	85

E. Cost of No-Action (Including Loss): $35,000 (direct market values; human life and safety is self-evident)

F. Cost of Selected Alternative (Including Loss): $24,500 (B/C ratio of 15.3 for direct market values)
(Utilized VAR tool spreadsheets; maps have not been built)

G. Skills Represented on Burned-Area Survey Team:

[ ] Hydrology	[**X**] Soils	[ ] Geology	[ ] Range	[ ]
[**X**] Forestry	[**X**] Wildlife	[ ] Fire Mgmt.	[ ] Engineering	[ ]
[ ] Contracting	[ ] Ecology	[**X**] Botany	[**X**] Archaeology	[ ]
[ ] Fisheries	[ ] Research	[ ] Landscape Arch	[**X**] GIS	

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H. **Treatment Narrative:**

(Describe the emergency treatments, where and how they will be applied, and what they are intended to do. This information helps to determine qualifying treatments for the appropriate funding authorities. For seeding treatments, include species, application rates and species selection rationale.)

Land Treatments: N/A

Channel Treatments: N/A

Roads and Trail Treatments:

Forest Road 1040 drainage protection would occur from mile post 3.92 to mile post 4.76, where the Lick Fire burned down to the road. Straw wattles would be placed above the catch basin of (7) 18" & 24" culverts in the affected area. Twenty-five foot wattles would be cut in half and 12.5 foot segments would be used to treat each drainage feature, installed per manufacturer's guidelines, to capture ash and sediment before it plugs the culverts and/or enters the Middle Fork Applegate River across the road from the burn area.

Protection/Safety Treatments:

Road Hazard Signs

Place two signs on FSR 1040, one at mile post 1.25 just past the intersection with FSR 1050, and one at the FSR 1035 intersection at mile post 6.4. Ensure maximum visibility and readability of signs to warn the public of hazards in the burned area, with emphasis to risk of falling trees and debris rollout. Signs would be 36" x 48" reflectorized aluminum backed signs with letter size according to the USFS Sign Handbook specifications, mounted on 4"x4"x10' posts at heights and distances mandated in the USFS Handbook.

Trail Hazard Signs

Place 4 signs at all trailheads and junctions that enter or provide access to trails in the burned area:
1 on Trail #959 (Cook and Green Trail) lower Trailhead at the junction with FSR 1040.
1 on Trail #959 (Cook and Green Trail) at the Cook and Green Pass upper Trailhead on FSR 1050.
1 on Trail #954 for the Shoofly Trailhead on FSR 1040 for the Butte Fork Trail.
1 on Trail #957 (Butte Fork Trail) where it intersects with the Horsecamp Trail.
Ensure maximum visibility and readability of signs warning visitors of hazards in the burned area, including loose rocks, falling trees and limbs, and impacts to trail condition. Signs would be 12"x18", poly-flex, yellow-black, non-reflective trail signs mounted on 4"x4"x8' posts at heights and distances mandated in the USFS Handbook.

I. **Monitoring Narrative:**

(Describe the monitoring needs, what treatments will be monitored, how they will be monitored, and when monitoring will occur. A detailed monitoring plan must be submitted as a separate document to the Regional BAER coordinator.)

None requested.

Part VI – Emergency Stabilization Treatments and Source of Funds **Interim #**

			NFS Lands				Other Lands			All
		Unit	# of		Other	# of	Fed	# of	Non Fed	Total
Line Items	Units	Cost	Units	BAER $	$	units	$	Units	$	$
A. Land Treatments										
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Land Treatments				$0	$0		$0		$0	$0
B. Channel Treatments										
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Channel Treat.				$0	$0		$0		$0	$0
C. Road and Trails										
Culvert protection	Each	$83	7	$581	$0		$0		$0	$1,020
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Road & Trails				$581	$0		$0		$0	$1,020
D. Protection/Safety										
Road Hazard Signs	Each	$510	2	$1,020	$0		#REF!		#REF!	#REF!
Trail Hazard Signs	Each	$445	4	$1,780	$0		$0		$0	$1,780
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Structures				$2,800	$0		#REF!		#REF!	#REF!
E. BAER Evaluation										
Assessment Team	Report	$1,244	1	---			$0		$0	$0
Insert new items above this line!				---	$0		$0		$0	$0
Subtotal Evaluation				---	$0		$0		$0	$0
F. Monitoring										
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Monitoring				$0	$0		$0		$0	$0
G. Totals				$3,381	$0		**#REF!**		**#REF!**	**#REF!**
Previously approved										
Total for this request				**$3,381**						

PART VII - APPROVALS

1. _____ _____
Forest Supervisor (signature) Date

2. _____ _____
Regional Forester (signature) Date