

# Incident Action Plan

**Forks Complex**

**CA-KNF-5949**

**P5HS91**

**NorCal**  
Interagency



Incident  
Management  
Team

**Day Shift**

**August 30, 2013**

**0600 to 1800**



<b>INCIDENT OBJECTIVES</b>	1. Incident Name <b>Forks Complex</b>	2. Date <b>8/29/2013</b>	3. Time <b>21:24</b>									
4. Operational Period <p style="text-align: center;"><b>8/30/2013 0600 - 1800</b></p>												
5. General Control Objectives for the Incident (include alternatives)  <b>MANAGEMENT OBJECTIVES</b> <ul style="list-style-type: none"> <li>• Ensure all suppression actions are prioritized for firefighter and public safety.</li> <li>• Ensure fire suppression operations minimize negative fire effects.</li> <li>• Utilize Resource Advisors and Heritage Consultants to assess impacts to sensitive historic, cultural, wildlife, and plant resources.</li> <li>• Manage the fire in a cost effective manner commensurate with values at risk.</li> <li>• Keep cooperators, communities, and concerned citizens informed.</li> </ul> <b>OPERATIONAL OBJECTIVES</b> <ul style="list-style-type: none"> <li>• Utilize tactics which provide for the protection of private property and infrastructure.</li> <li>• Utilize minimum impact suppression tactics (MIST) within wilderness areas and in other land use designations as appropriate.</li> <li>• Keep the Butler fire within constructed fire lines.</li> <li>• Keep the Salmon fire within existing containment lines.</li> <li>• Implement fire suppression repair in accordance with developed plans.</li> </ul>												
6. Weather Forecast for Period <p style="text-align: center;"><b>See attached forecast</b></p>												
7. Safety Message <p style="text-align: center;"><b>See attached Safety Message</b></p>												
8. Attachments (mark if attached)												
<table border="0" style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> Organization List - ICS 203</td> <td><input checked="" type="checkbox"/> Medical Plan - ICS 206</td> <td><input checked="" type="checkbox"/> Weather</td> </tr> <tr> <td><input checked="" type="checkbox"/> Div. Assignment Lists - ICS 204</td> <td><input checked="" type="checkbox"/> Incident Map</td> <td><input checked="" type="checkbox"/> Safety Message</td> </tr> <tr> <td><input checked="" type="checkbox"/> Communications Plan - ICS 205</td> <td><input type="checkbox"/> Traffic Plan</td> <td><input checked="" type="checkbox"/> LCES Worksheet</td> </tr> </table>				<input checked="" type="checkbox"/> Organization List - ICS 203	<input checked="" type="checkbox"/> Medical Plan - ICS 206	<input checked="" type="checkbox"/> Weather	<input checked="" type="checkbox"/> Div. Assignment Lists - ICS 204	<input checked="" type="checkbox"/> Incident Map	<input checked="" type="checkbox"/> Safety Message	<input checked="" type="checkbox"/> Communications Plan - ICS 205	<input type="checkbox"/> Traffic Plan	<input checked="" type="checkbox"/> LCES Worksheet
<input checked="" type="checkbox"/> Organization List - ICS 203	<input checked="" type="checkbox"/> Medical Plan - ICS 206	<input checked="" type="checkbox"/> Weather										
<input checked="" type="checkbox"/> Div. Assignment Lists - ICS 204	<input checked="" type="checkbox"/> Incident Map	<input checked="" type="checkbox"/> Safety Message										
<input checked="" type="checkbox"/> Communications Plan - ICS 205	<input type="checkbox"/> Traffic Plan	<input checked="" type="checkbox"/> LCES Worksheet										
9. Prepared by (Planning Section Chief) <i>Paul PSC2</i>		10. Approved by (Incident Commander) <i>Matt J...</i>										

ORGANIZATION ASSIGNMENT LIST			9. Operations Section		
1. Incident Name Forks Complex		Day Ops Chief		Rick Young / Eric Petterson (t)	
		Night Ops Chief			
2. Date 8/29/2013		3. Time 21:28		Planning Ops Dan George / Scott Lucas (t)	
4. Operational Period 08/30/2013 0600 - 1800			a. Branch I – Division/Groups		
			Branch		Daren Dalrymple
Position		Name		Division/Group	
				F Unstaffed	
				G / H Paul Johnson / Paul Zerr Aaron Lowe (t)	
5. Incident Commander and Command Staff			Division/Group		
Incident Commander		Matt Johnson		K Heather McRae	
Deputy IC		Joe Molhoek		W Jason Withrow	
Liaison		Tim Fike		Division/Group	
Safety Officer		T. O'Connell / S. Davis / S. Charley		Division/Group	
Information Officer		Adrienne Freeman		b. Division/Groups	
				Division Group A / E Unstaffed	
6. Agency Representative			Division/Group		
Agency		Name		B / C / D Greg Jewers / Heather Munn(t)	
Agency Admin		Patty Grantham		R Daniel Lindsey	
Agency Admin Rep		Nolan Colegrove (SRF) Dave Hayes (KNF)		T / Z Steve Raymer / Matt Lynde (t)	
Siskiyou County Sheriff		Jim Bretts		Patrol Melanie Fullman	
Siskiyou County OES		Ron Qugley		Division/Group	
Forks Community Liaison		Jim Bennett		Division/Group	
Hoopa Tribal Chair		Danielle Vigil-Masten		Division/Group	
Karuk Tribal Rep		Bill Tripp		Division/Group	
CCC Rep		Susan Jones		Division/Group	
California OES		Pat O'Bannon		Division/Group	
Heritage Consultant Coord.		Harold Tripp		Division/Group	
Lead Resource Advisor		Dustin Bryant		d. Air Operations Branch	
7. Planning Section			Air Operations Branch Director		
Chief		Patrick Farrell / John Owen (t)		Dennis Kuster	
Deputy		Dan Lattimore		Air Support Group Supervisor	
Resources Unit		Duane Miller (t)		Staci Dickson	
Situation Unit		Charlotte Jordan / Matt Brown(t)		Air Tactical Group Supervisor	
Documentation Unit		Rex Crabtree		Air Tactical Group Supervisor	
Demobilization Unit				HeliBase Manager	
Fire Behavior Unit		Ken Larson		Bill Lambert	
8. Logistics Section			10. Finance Section		
Chief		Jack Costello / Aaron Lowe (t)		Chief	
Deputy		Mike Heckendorn		Beth Lopez	
Supply Unit		Tracey Valentine		Personnel Time Unit	
Facilities Unit		Bill Patten / Ric Crowther / Robin Davis (t)		Equipment Time Unit	
Ground Support Unit		John Fell		Juanita Cortez	
Communications Unit		Jim Lewis / Don Stoner		Cost Unit	
Medical Unit		Jennifer Kraushaar / Patrick Young (t)		Rich Anderson	
Food Unit		Kevin Browning		Compensation / Claim Unit	
			Procurement Unit Leader		
			Ron Schilz / Karie Linn		
			IBA		
			Lola Capp / Kathy Griffin		
			Prepared By: John Owen – RESL		



# Forks Complex Incident Weather Forecast



FORECAST NO: 28 D  
 PREDICTION FOR: Friday Day Shift  
 SHIFT DATE: August 30th, 2013  
 FORECAST ISSUED: 2000 August 29<sup>th</sup>, 2013

NAME OF FIRE: Forks Complex  
 UNIT: Klamath National Forest  
 Incident Meteorologist: *John Pendergrast*  
 240-499-6649

WEATHER DISCUSSION: Weak high pressure over the region will lighten winds today. Winds will become terrain driven during the afternoon with warm temperatures and low humidity. A stationary upper low will remain just offshore the Pacific Northwest during much of next week resulting in dry and generally warm conditions daily.

WEATHER FORECAST FOR TODAY (FRIDAY DAY SHIFT):

WEATHER: Patchy fog/haze low elevations early. Otherwise mostly sunny .  
 WIND (EYE-LEVEL): **Valleys:** Drainage winds 1 to 3 mph in the morning becoming upslope/valley 4 to 8 mph gusts to 15 mph in the afternoon.  
**Ridges:** South - Southwest 8 to 12 mph with afternoon gusts up to 20 mph.  
 MAX TEMPERATURES: 85 - 90F drainages, 70-80 ridges.  
 MIN RH: 25 - 35% drainages, 35- 45% ridges.  
 LAL: 1 CWR: 0%

FORECAST TONIGHT (FRIDAY NIGHT SHIFT):

WEATHER: Areas of fog/haze low elevations late, Otherwise mostly clear.  
 MIN TEMPERATURES: 44 - 54F...warmer along upper slopes and ridges  
 MAX RH: 90 - 100% drainages, 60 - 75% ridges.  
 LAL: 1 CWR: 0%  
 WIND (EYE-LEVEL): **Valleys:** Southwest winds 3 to 6 mph gusts 12 mph in the evening...becoming Downslope/valley 2 to 5 mph overnight.  
**Ridges:** Southwest 4 to 8 mph with gusts 14 mph in the evening decreasing to 5 to 10 mph.

WEATHER FORECAST FOR SATURDAY:

WEATHER: Patchy fog/haze low elevations early becoming partly cloudy.  
 WIND (EYE-LEVEL): **Valleys:** Drainage winds becoming Upslope/valley 5 to 8 mph gusts to 12 mph.  
**Ridges:** Southwest 7 to 10 mph with afternoon gusts up to 18 mph.  
 MAX TEMPERATURES: 85 - 90F drainages, 70 - 80 ridges.  
 MIN RH: 25 - 35% drainages, 35- 45% ridges.  
 LAL: 1 CWR: 0%

EXTENDED OUTLOOK SUNDAY THROUGH TUESDAY:

WEATHER: Mostly sunny and continued dry. Warm afternoons with low humidity.  
 WIND (EYE-LEVEL): **Valleys:** Light winds becoming Upslope/valley 5 to 10 mph gusts up to 15 mph. Higher afternoon gusts in aligned valleys/canyons. Highest winds Monday.  
**Ridges:** South - Southwest 7 to 12 mph gusts up to 17 mph. Stronger winds Monday 8 to 12 mph gusts up to 23 mph.  
 MIN TEMPERATURES: 46 - 55F...warmest toward the ridges.  
 MAX TEMPERATURES: 85 - 90F drainages, 72 - 79 ridges...little change daily.  
 MIN RH: 25 - 32% drainages, 34 - 40% ridges...RH Trend little change daily.  
 MAX RH: 80 - 95% drainages, 55 - 70% ridges...RH Trend little change daily.

LAL: 1 CWR: 5%  
 Sunrise Friday 0642 Sunset Friday 1952  
 Sunrise Saturday 0643 Sunset Saturday 1950  
 Moon Phase: Waning (28% visible)

**Fire RAWS  
 QR Code**



# FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 52	TYPE OF FIRE: Wildland Fire
FIRE NAMES: Forks Complex	OPERATIONAL PERIOD: 0600 – 1800, August 30, 2013
DATE ISSUED: August 29, 2013	TIME ISSUED: 2000
UNIT: Klamath NF	SIGNED: /s/ Ken Larson, FBAN

## INPUTS

**WEATHER SUMMARY:** *See attached Incident Meteorological Forecast*

### Discussion:

Weak high pressure will lighten winds today. This afternoon will see terrain driven winds with warm temperatures and low humidity.

**Weather:** Patchy fog/haze early low elevations becoming mostly sunny.

**Max Temp:** 85-90° drainages, 70-80° ridges

**Min RH:** 25-35% drainages, 35-45% ridges

**Winds (eye-level):** **Valleys:** drainage 1-3 mph in the morning becoming upslope/valley 4-8 gusts to 15 in the afternoon  
**Ridges:** S-SW 8-12 mph with afternoon gusts to 20

## FIRE BEHAVIOR

### GENERAL

Fuels are continuing to slowly dry out and may take several days to see a significant increase in fire behavior. Expect a minor increase in fire activity as the day progresses. Shaded timber fuels will respond more slowly to the warmer drier weather than exposed fuels.

**Branch I:** in all Divisions (F, G, H, K, W) expect creeping and smoldering fire behavior with rates of spread less than 1 chain/hour and flame lengths of less than 1 foot.

**Divisions A, B, C (Butler Fire):** Expect little activity as mop-up progresses on these divisions.

**Divisions R, T (Salmon):** Repair activities continue with not hot areas identified.

**Division Z (Salmon):** The area along the road near Jackass Gulch that was burned out Thursday still contains heat. The spot fire as a result of the burnout will need to be checked. Any undetected spots could spread at slow rates with minimal flame lengths.

## AIR OPERATIONS


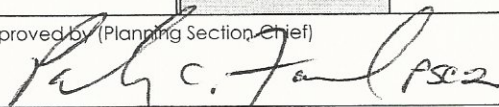
08/30 Sunrise – 06:37

08/30 Sunset – 19:48

## SAFETY


- Watch for reburn potential in partially burned vegetation.
- When working interior areas of the fire watch for hazards such as fire-weakened trees, stump holes, rolling materials on steep slopes, etc.



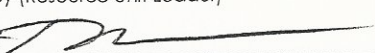
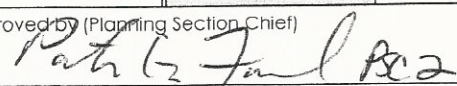
<b>DIVISION ASSIGNMENT LIST</b>			1. Branch <b>I</b>		2. Division/Group <b>G/H (Butler)</b>			
3. Incident Name <b>Forks Complex</b>			4. Operational Period <b>DAY OPERATIONS</b> Date: 08/30/2013 Time: 0600 - 1800					
5. Operations Personnel								
Operations Chief		Rick Young		Division/Group Supervisor		Paul Johnson / Paul Zerr / Aaron Lowe (t)		
Branch Director		Daren Dalrymple		Air Operations		Dennis Kuster		
6. Resources Assigned this Period								
Strike Team/Task Force/ Resource Designator		Leader		Last Shift	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time
HC2IA Tallac (C-68)		Aaron Grove		9/1	18	N	DP-45 / 0700	1800
FUM Grass Lake (O-66)		Will Johnson/ John Bradbeck		9/2	10	N	DP-45 / 0700	1800
ENG6 Oregon Woods (E-48)		Byron Sumpter		9/3	3	N	DP-45 / 0700	1800
ENG5 Chewack (E-52)		Jarred Hodgson		9/6	3	N	DP-45 / 0700	1800
TFLD (O-75)		Matt Lamb		9/3	1	N	DP-45 / 0700	1800
TFLD (O-60)		Benjamin Molitor (t)		8/31	1	N	DP-45 / 0700	1800
SORF (O-89)		Robert Verdie		9/1	1	N	DP-45 / 0700	1800
FEMP (O-111)		Scott Owen		9/2	1	N	DP-45 / 0700	1800
FEMT (O-123)		Brian Conn		9/2	1	N	DP-45 / 0700	1800
7. Control Operations								
<ul style="list-style-type: none"> <li>Continue mop-up to an optimal goal of 300' where accomplishment does not jeopardize personnel safety.</li> <li>Monitor fire spread east of Orleans Mt and Granite Creek drainage.</li> </ul>								
8. Special Instruction								
<ul style="list-style-type: none"> <li>Red &amp; white stripe and orange &amp; white stripe flagging denote area of resource concern. Directions of resource concern will be written on the flagging.</li> <li>Coordinate with READ and DIVS to implement division specific suppression repair plan.</li> <li>Leave 2 pumpkins at DP50 and 1 pumpkin at H6. Leave hose lay and pumps from G/H break north for 1 mile.</li> <li>Back-haul all other excess equipment and trash.</li> </ul>								
9. Division/Group Communication Summary								
Function	Frequency	Channel Name	Channel	Function	Frequency	Channel Name	Channel	
Command	RX 168.0750 TX 170.4250	CMD 1	1 Tone 3					
Tactical Division/Group	RX 166.7250 TX 166.7250	TAC 5	6 Tone 3	Air to Ground Command	RX 171.5375 TX 171.5375	A/G CMD	13	
Prepared by (Resource Unit Leader)			Approved by (Planning Section Chief)			Date	Time	
D. Miller 						8/29/13	1900	


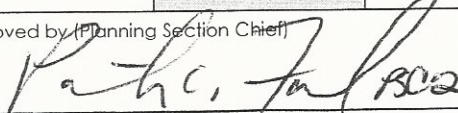


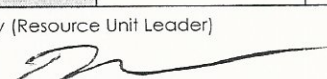
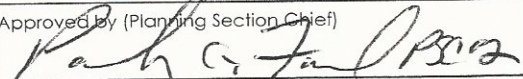


<b>DIVISION ASSIGNMENT LIST</b>			1. Branch <b>I</b>		2. Division/Group <b>W (Butler)</b>		
3. Incident Name <b>Forks Complex</b>			4. Operational Period <b>DAY OPERATIONS</b> Date: 08/30/2013 Time: 0600 - 1800				
5. Operations Personnel							
Operations Chief		Rick Young		Division/Group Supervisor		Jason Withrow	
Branch Director		Daren Dalrymple		Air Operations		Dennis Kuster	
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator		Leader	Last Shift	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time
ENG6 NM 3062 (E-50)		Ray Ruiz	9/4	3	N	DP-20 / 0700	1800
WT2 Darrah Logging (E-7)		Larry Pettes	9/2	1	N	DP-20 / 0700	1800
PUMP ECAM (E-161)		Mike Davis	9/8	1	N	DP-20 / 0700	1800
STEN (O-287)		Anthony Manning	9/2	1	N	DP-20 / 0700	1800
SOFR (O-107)		Ray Miller	9/4	1	N	DP-20 / 0700	1800
FEMP (O-109)		Davis Doty	9/2	1	N	DP-20 / 0700	1800
FEMP (O-108)		Mike Mallett	9/2	1	N	DP-20 / 0700	1800
7. Control Operations							
<ul style="list-style-type: none"> <li>Mop up to an optimal goal of 300' where accomplishment does not jeopardize personnel safety.</li> <li>Monitor fire activity in upper Butler Creek.</li> </ul>							
8. Special Instruction							
<ul style="list-style-type: none"> <li>All engines fill at ECAM pump staged at Oak Bottoms.</li> <li>Coordinate with DIVS to implement division specific suppression repair plan.</li> <li>Red and white stripe and orange and white stripe flagging denotes area of resource concern. Directions of resource concern will be written on the flagging.</li> <li>Leave hoselay from Somes Sling to DP6</li> <li>Back-haul all other excess equipment, and trash.</li> </ul>							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 170.4125 TX 165.9625	CMD 2	<b>2</b> <b>Tone 3</b>				
Tactical Division/Group	RX 168.2000 TX 168.2000	TAC 3	<b>8</b>	Air to Ground Command	RX 171.5375 TX 171.5375	A/G CMD	<b>13</b>
Prepared by (Resource Unit Leader) D. Miller 				Approved by (Planning Section Chief)		Date 8/29/13	Time 1900

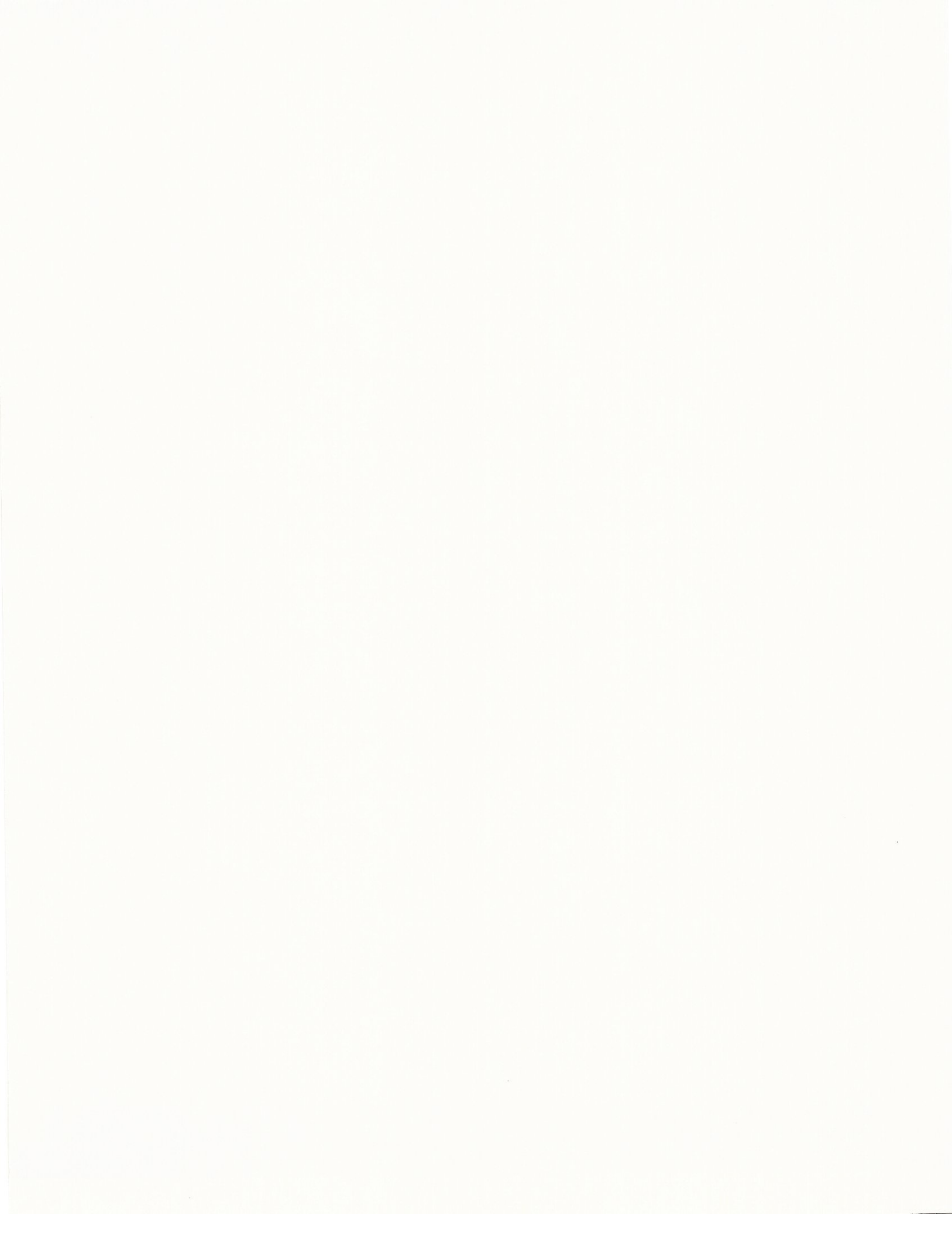


<b>DIVISION ASSIGNMENT LIST</b>		1. Branch	2. Division/Group <b>B/C/D (Butler)</b>				
3. Incident Name <b>Forks Complex</b>		4. Operational Period <b>DAY OPERATIONS</b> Date: 08/30/2013 Time: 0600 – 1800					
5. Operations Personnel							
Operations Chief	Rick Young		Division/Group Supervisor	Greg Jewers / Heather Munn (f)			
Branch Director			Air Operations	Dennis Kuster			
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Last Shift	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time	
HC1 Feather River IHC (C-66)	Robert Daniels	9/4	20	N	DP-2 / 0700	1800	
HC2IA Firestorm 6 (C-18)	Jimmy Ramirez	9/12	20	N	DP-2 / 0700	1800	
S/T Butler #3 w/(O-321)	James Jones	9/1	15	N	DP-2 / 0700	1800	
ENG6 Woods #27 (E-265)	Booker	8/31	3	N	DP-2 / 0700	1800	
ENG6 Mt. Adams (E-339)	Paula Holter	9/7	3	N	DP-2 / 0700	1800	
ENG6 Grayback (E-365)	Telly Martinez	9/2	3	N	DP-2 / 0700	1800	
ENG4 Inbound (E-366)	Adham Rowley	9/2	3	N	DP-2 / 0700	1800	
DOZ2 w/LOWB Ken's #1 (E-12)	Mike Kelly/Richard Olson	9/5	2	N	DP-2 / 0700	1800	
DOZ2 w/LOWB J.A. Cook (E-14)	John Cook	9/5	2	N	DP-2 / 0700	1800	
MAST w/LOWB T2 Wylatti (E-219)	Rob Garzini / Johnnie Gonzalez	9/12	2	N	DP-2 / 0700	1800	
CHIP Diamond Fire (E-33)	Dwayne Moore/Harley Tyrie	9/3	2	N	DP-2 / 0700	1800	
HEQB (O-384)	Willie Vance	9/2	1	N	DP-2 / 0700	1800	
SOFR (O-46)	Matt Weinell	9/2	1	N	DP-2 / 0700	1800	
FEMP (O-45)	Damen Snow	8/31	1	N	DP-2 / 0700	1800	
FEMT (O-82)	Elliott Rubin	9/2	1	N	DP-2 / 0700	1800	
FEMP (O-110)	Scott Wilcox	9/2	1	N	DP-2 / 0700	1800	
FEMT (O-13)	David Revollo	8/31	1	N	DP-2 / 0700	1800	
Wildlife READ (O-140)	Terrah Owens	9/4	1	N	DP-2 / 0700	1800	
READ (O-121)	Roberto Beltran	9/12	1	N	DP-2 / 0700	1800	
7. Control Operations							
<ul style="list-style-type: none"> <li>Patrol Salmon River Rd.</li> <li>Monitor fire activity in Nordheimer drainage.</li> <li>Mop up to an optimal goal of 300' where accomplishment does not jeopardize personnel safety.</li> </ul>							
8. Special Instructions:							
<ul style="list-style-type: none"> <li>Coordinate with READ and DIVS to implement division specific suppression repair plan.</li> <li>Red &amp; white stripe and orange and white stripe flagging denote area of resource concern. Directions of resource concern will be written on the flagging.</li> <li>Backhaul all hose, pumps, other excess equipment and trash.</li> </ul>							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 162.1875 TX 172.5500	CMD 5	<b>5 Tone 3</b>				
Tactical Division/Group	RX 168.0500 TX 168.0500	TAC 2	<b>7</b>	Air to Ground Command	RX 171.5375 TX 171.5375	A/G CMD	<b>13</b>
Prepared by (Resource Unit Leader)			Approved by (Planning Section Chief)		Date	Time	
D. Miller 					8/28/13	1700	

<b>DIVISION ASSIGNMENT LIST</b>		1. Branch		2. Division/Group <b>R (Salmon)</b>			
3. Incident Name <b>Forks Complex</b>		4. Operational Period Date: 08/30/2013		<b>DAY OPERATIONS</b> Time: 0600 - 1800			
5. Operations Personnel							
Operations Chief		Rick Young		Division/Group Supervisor		Dan Lindley / Walt Carter	
Branch Director				Air Operations		Dennis Kuster	
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator		Leader		Last Shift	Number Persons	Trans. Needed	Pick Up PT./Time
HC T2 North Pacific (C-69)		William Hughes		9/7	20	N	2000
DOZ2 w/LOWB Berryhill #713 (E-73)		Eric Durden		9/2	2	N	2000
GRADER w/LOWB Johnson (E-58)		Jack Hottendorf		9/1	2	N	2000
EXCAVATOR w/LOWB Berryhill (E-224)		Kim Berryhill		9/6	2	N	2000
EXCAVATOR w/LOWB North River (E-225)		Billy Parry		9/7	2	N	2000
WTS2 White Logging (E-12)		Tom White		9/1	1	N	2000
WTS2 Johnson(E-13)		Dave Johnson		8/31	1	N	2000
CHIPPER - Firestorm (E-223)		John Chase		9/7	1	N	2000
SOFR (O-88)		Steve Heine		9/1	1	N	2000
EMTP (O-10)		Nick Gabbard		8/30	1	N	2000
EMTP (O-11)		Eric Van Renselaar		8/30	1	N	2000
READ (Div T/Z also) (O-197)		Ernesto Tanori		9/10	1	N	2000
READ (O-198)		Dustin Bryant		9/2	1	N	2000
Heritage Consultant (O-292)		Franklin Donahue		9/6	1	N	2000
Heritage Consultant (O-254)		Phillip Courts		9/3	1	N	2000
Heritage Consultant (O-225)		Phil Tripp		9/3	1	N	2000
Heritage Consultant (O-169)		Albert Titus		9/7	1	N	2000
7. Control Operations							
<ul style="list-style-type: none"> <li>Continue repair operations.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>Coordinate with READS and DIVS to implement suppression repair plan in Division R.</li> <li>Backhaul all hose, pumps, other excess equipment and trash.</li> </ul>							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 168.0750 TX 170.4250	CMD 1	1 Tone 3				
Tactical Division/Group	RX 168.6000 TX 168.6000	TAC 4	9	Air to Ground Command	RX 171.5375 TX 171.5375	A/G CMD	13
Prepared by (Resource Unit Leader)			Approved by (Planning Section Chief)			Date	Time
D. Miller 						8/29/13	1900

<b>DIVISION ASSIGNMENT LIST</b>			1. Branch		2. Division/Group <b>T/Z (Salmon)</b>			
3. Incident Name <b>Forks Complex</b>			4. Operational Period <b>DAY OPERATIONS</b> Date: 08/30/2013 Time: 0600 - 1800					
5. Operations Personnel								
Operations Chief		Rick Young		Division Group Supervisor		Steve Raymer / Matt Lynde (t)		
Branch Director				Air Operations		Dennis Kuster		
6. Resources Assigned this Period								
Strike Team/Task Force/ Resource Designator	Leader	Last Shift	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
HC2IA Mountaineers (C-21)	Tom Wesley	9/12	20	N	DP7 / 0700	1800		
ENG6 Young Logging (E-218)	Steve Rhea	9/4	3	N	DP7 / 0700	1800		
ENG6 A-Team #1 (E-219)	Schin Haakenson	9/4	3	N	DP7 / 0700	1800		
ENG6 CBD E 7601(E-221)	Jay Flora	9/4	2	N	DP7 / 0700	1800		
WT2 Cattlelack (E-77)	James Goldie	9/2	1	N	DP7 / 0700	1800		
SOFR (O-43)	Mark Munns	9/3	1	N	DP7 / 0700	1800		
REM#1	Kevin Wegener	8/30	4	N	DP-7 / 0700	1800		
FEMP (O-339)	Kevin Meineke	8/31	1	N	DP7 / 0700	1800		
FEMP (O-333)	Chris Harrison	8/31	1	N	DP7 / 0700	1800		
FEMT (O-338)	Adam Volmer	8/31	1	N	DP7 / 0700	1800		
FEMT (O-334)	Lorenzo Rocha	8/31	1	N	DP7 / 0700	1800		
7. Control Operations								
<ul style="list-style-type: none"> <li>Continue to hold and mop up to an optimal goal of 300' where accomplishment does not jeopardize personnel safety.</li> <li>Improve direct handline and cold trail as needed.</li> </ul>								
8. Special Instructions								
<ul style="list-style-type: none"> <li>Back-haul all hose, pumps, other excess equipment, and trash.</li> </ul>								
9. Division/Group Communication Summary								
Function	Frequency	System	Channel	Function	Frequency	System	Channel	
Command	RX 168.0750 TX 170.4250	CMD 1	<b>1 Tone 3</b>					
Tactical Division/Group	RX 167.1125 TX 167.1125	TAC 6	<b>11 Tone 3</b>	Air to Ground Command	RX 171.5375 TX 171.5375	A/G CMD	<b>13</b>	
Prepared by (Resource Unit Leader) D. Miller 			Approved by (Planning Section Chief) 			Date 8/28/13		Time 21:54







INCIDENT RADIO COMMUNICATIONS PLAN			Incident Name			Date/Time Prepared			Operational Period Date/Time			
<b>FORKS COMPLEX</b>			08/29/13 1545 HRS.			08/30/13 0600-2200						
Only frequencies listed on this 205 are authorized for use on this incident.			Hand programmers accept all responsibility for the use of unauthorized frequencies.									
Ch #	Function	Channel Name	Assignment	RX Freq N or W	RX Tone	TX Freq N or W	TX Tone	Mode	Remarks			
1	COMMAND	CMD 1	ORLEANS LO	168.0750 N		170.4250 N	Tone 3 131.8	A	MAIN BODY OF FIRE			
2	COMMAND	CMD 2	96 / 93 TRAVEL	170.4125 N		165.9625 N	Tone 3 131.8	A	TRAVEL ON 96 AND 93			
3	COMMAND	CMD 3	AIKEN'S	163.0375 N		170.0250 N	Tone 3 131.8	A	SHELTON MT LO			
4	COMMAND	CMD 4	ETNA / HELIBASE	164.7750 N		170.4625 N	Tone 3 131.8	A	ETNA SUMMIT			
5	COMMAND	CMD 5	ICP / SOUTH BUTLER	162.1875 N		172.5500 N	Tone 3 131.8	A	BLUE RIDGE			
6	TACTICAL	TAC 1	DIV G / H	166.7250 N		166.7250 N	Tone 3 131.8	A	NIFC TAC 5			
7	TACTICAL	TAC 2	DIV B / C / D	168.0500 N		168.0500 N		A	NIFC TAC 1			
8	TACTICAL	TAC 3	DIV W	168.2000 N		168.2000 N		A	NIFC TAC 2			
9	TACTICAL	TAC 4	DIV R	168.6000 N		168.6000 N		A	NIFC TAC 3			
10	TACTICAL	TAC 5	DIV K	166.5500 N		166.5500 N	Tone 3 131.8	A	R5 TAC 4			
11	TACTICAL	TAC 6	DIV T / Z	167.1125 N		167.1125 N	Tone 3 131.8	A	R5 TAC 5			
12			INACTIVE					A	INACTIVE			
13	AIR TO GROUND	A / G CMD	Air to Ground	171.5375 N		171.5375 N		A	AIR TO GROUND COMMAND			
14			INACTIVE					A	INACTIVE			
15	MEDIVAC	CALCORD	MEDICAL TACTICAL	156.0750 N		156.0750 N	Tone 6 156.7	A	MEDIVAC AIR COORDINATION			
16	URGENT AIR CONTACT	AIRGUARD	ALL DIVISIONS	168.6250 N		168.6250 N	Tone 1 110.9	A	USE ONLY FOR URGENT AIRCRAFT CONTACT			
Prepared by				Incident Location								
DON STONER COML NORCAL II				FORKS OF THE SALMON LAT: N 41 15.512 LONG W 123 19.668 ELEV, 1249 ft								

**PATROL:** TAC ASSIGN THE DIV THEY ARE WORKING

INCIDENT RADIO COMMUNICATIONS PLAN		Incident Name <b>FORKS COMPLEX IA Group</b>			Date/Time Prepared 08/29/13 1457 HRS.	Operational Period Date/Time DAY 08/30/13 0600-1800			
Only frequencies listed on this 205 are authorized for use on this incident.									
Ch #	Function	Channel Name	Assignment	RX Freq N or W	RX Tone	TX Freq N or W	TX Tone	Mode	Remarks
<b>ALL TONES IN THIS GROUP ARE USER SELECTED</b>									
1	KNF DISPATCH	KNF	FOREST OPS	164.1750N		164.9750N	CG	A	ROUTINE TRAFFIC, T5 ORLEANS PK
2	KNF IA DISPATCH	KNF SAM	I / A RESOURCES	171.50000N		172.4000N	CG	A	TONES 5,6
3	KNF DISPATCH	KNF RIVER	FOREST OPS	172.2500 N		171.550 N	CG	A	TONES 2, 7 OR 10
4	SRF DISPATCH	SRF	FOREST OPS	168.7250N		170.1250N	CG	A	TONES 5,6,7 AND 13
5	HOOPA FIRE RPT	HIA	AS NEEDED	155.3850N		150.8050N	CG	A	tone 6
6	SISKIYOU DISPATCH	SKU-L 1	SKU OPS	151.3250 N		159.3600 N	CG	A	tone 6
7	HUMBOLT	HUU OPS	OPERATIONS	151.2500 N		159.4050 N	CG	A	tone 11&13
8	NIFC TAC 1	NIFC TC1	I / A TAC	168.0500 N		168.0500 N		A	
9	NIFC TAC 2	NIFC TC2	I / A TAC	168.2000 N		168.2000 N		A	
10	NIFC TAC 3	NIFC TC3	I / A TAC	168.6000 N		168.6000 N		A	
11	FS AIR / GND PRI	FS A/G PRI	ALL DIVISIONS	167.6000 N		167.6000 N		A	
12	FS AIR / GND SEC	FS A/G SEC	ALL DIVISIONS	166.8750 N		166.8750 N		A	
13	UNASSIGNED								UNASSIGNED
14	AIR TO GROUND	CDF A / G	AS NEEDED	151.2200 N		151.2200 N		A	
15	MEDICAL	CALCORD	MEDICAL TACTICAL	156.0750 N		156.0750 N	T6 156.7	A	
16	URGENT AIR CONTACT	AIRGUARD	ALL DIVISIONS	168.6250 N		168.6250 N	T1 110.9	A	USE ONLY FOR URGENT AIRCRAFT CONTACT
Prepared by				Incident Location MODE: A - ANOLOG, D - DIGITAL ORLEANS, CA					
DON STONER COML NORCAL 2									

<b>MEDICAL PLAN</b>	1. INCIDENT NAME Forks Complex	2. DATE PREPARED 8/29/2013	3. TIME PREPARED 2000 Hrs	4. OPERATIONAL PERIOD <b>0600-2200</b> <b>08/30/2013</b>						
	5. INCIDENT MEDICAL AID STATIONS									
MEDICAL AID STATIONS		LOCATION		PARAMEDICS		YES	NO			
Frontline Medical		Forks ICP near Near the Kitch		X						
Aiken's Medical Unit		Aiken's Medical Unit at Aiken's Camp		X						
FEMP Wilcox, FEMT Rubin, FEMP Revollo, FEMP Snow		Div B,C, D or as directed by Safety and Operations		X						
FEMP Owen & FEMT Conn & REM 2		Div G,H or as directed by Safety and Operations		X						
FEMP Bristow		Div K or as directed by Safety and Operations		X						
FEMP Mallett & FEMP Doty		Div W or as directed by Safety and Operations		X						
FEMP Volmer & FEMT Mineke		Div T,Z or as directed by Safety and Operations		X						
FEMP Harrison & FEMT Rocha & REM 1		Div T,Z or as directed by Safety and Operations		X						
FEMP Gabbard & FEMP Van Renselaar		Div R or as directed by Safety and Operations		X						
6. TRANSPORTATION										
A. AIR RESOURCES										
NAME		ADDRESS		PHONE		PARAMEDICS				
						YES	NO			
NPS H- 7PA - Short Haul Capable 150' to 250'		Scott Valley Helibase, Scott Valley, Ca 96027		Air Ops. (877) 353-6938			X			
CalFire 102- (Hoist) Daylight hrs only		Kneeland, CA		YICC (530) 842-3515			X			
REACH- (Non-Hoist) NVG Capable		3775 Flight Ave. Redding, Ca. 96003		YICC (530) 842-3515		RN/ Medic				
PHI Air Medical -(Non-Hoist) NVG Capable		1524 East St. Redding , Ca 96003		YICC (530) 842-3515		RN/ Medic				
CANG H820-(Hoist, day or night) NVG Capable		Redding Airport		YICC (530) 842-3515		X				
B. INCIDENT AMBULANCES										
NAME		LOCATION				PARAMEDICS				
						YES	NO			
Arcata Ambulance 4		Available @ Red Bank Camp Ground on Sawyer Bar Road				X				
City Ambulance 4		Available Aiken's Camp, Orleans CA				X				
7. HOSPITALS										
NAME		ADDRESS		TRAVEL TIME		HELIPAD		BURN CENTER		
				AIR GRND		YES NO		YES NO		
St Joseph Hospital		2700 Dolbeer Eureka, Ca. N 40 47.02 / W 124 8.48		20 M 2.5 H		707-445-8121 #2		X		X
Fairchild Medical Center		444 Bruce St. Yreka, CA N41 43.13 W122 38.69		20M 2.5 H		530-842-4121		X		X
Mercy Medical Center Level 2 Trauma		2175 Rosaline Ave. Redding, Ca N 40 34.13 / W 122 23.67		50M 3 H		530-225-7201		X		X
UC Davis Medical Ctr. Level 1 Trauma		2315 Stockton Blvd. Sacramento, Ca. N 38 33.17 / W 121 27.05		1.5H 6.5 H		916-734-3636		X		X
8. MEDICAL EMERGENCY PROCEDURES										
IN-CAMP CARE						LINE EMERGENCIES				
<ul style="list-style-type: none"> <li>Minor Injuries or illnesses <ul style="list-style-type: none"> <li>Seek Aid directly at the Frontline Medical Unit, report all injuries or illnesses to supervisor</li> <li>Unit Open 0600 hrs to 2200 hrs</li> </ul> </li> <li>Moderate to Severe Injuries or Illnesses <ul style="list-style-type: none"> <li>Contact Communications directly</li> <li>Med Unit staffed after hours for Emergencies</li> </ul> </li> </ul>						<ul style="list-style-type: none"> <li>Start of shift: notify your Div Sup of EMT's and equipment you have available for response if needed.</li> <li>Contact Communications and declare a medical emergency on command</li> <li>Closest DIVS or designee responds to incident <ul style="list-style-type: none"> <li>Closest SOFR/EMT's respond to assist w/care</li> <li>Use attached Injury or Incident Comm. Protocol</li> <li>If ambulance (ground or air) delayed designate rendezvous site and move towards it</li> </ul> </li> <li>Secure scene for investigation—keep a log</li> </ul>				
ICS 206 8-78		9. PREPARED BY (MEDICAL UNIT LEADER) J.KRaushaar MEDL, Patrick Young MEDL -T				10. REVIEWED BY (SAFETY OFFICER) S. Davis				



Lookouts

Communications

Escape Routes

Safety Zones

# Forks Complex

Operation Period: 08/30/2013 Day Shift

## SAFETY MESSAGE

### FATIGUE EFFECTS AND MANAGEMENT

- Cumulative fatigue is a contributing factor in many accidents.
- Fatigue effects your mental processing, your ability to access your short and long term memory, as well as your physical performance.
- The effect of 24 hours without sleep is equivalent to being legally drunk.
- The only remedy to fatigue is quality sleep. Manage your off shift time to ensure you and your personnel get the rest needed.

### MAJOR HAZARDS AND RISKS

STEEP TERRAIN FATIGUE DRIVING	ROLLING MATERIAL DEHYDRATION CHIPPING OPERATIONS	HEAVY EQUIPMENT SNAGS COMPLACENCY
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*Be sure all elements of your safety plan are in place prior to engagement*

### Transition Day

- Today you may have a new supervisor.
- Please recognize that there may be new people on the incident who you can help during this transition by sharing your Situational Awareness and other information you have gathered to help make this transition seamless.
- The mission of NorCal Team 2 is to provide everything essential for you to safely and effectively accomplish the incident objectives.
- Please feel free to contact any team member about how we can most effectively support your needs.

### Driving & Fatigue

- Make sure you are getting your rest when you can ! Stick to work/rest guidelines.
- Fatigue can cause us to mentally stray from the driving task.
- It only takes a second of distraction to lose control of our vehicle. The faster you are traveling, the faster you get in trouble.
- Make sure you recognize when you are too tired to drive !
- Don't tough it out and put yourself and your passengers at risk !
- Slow down, take breaks, and talk to your passengers. If possible, keep an alert passenger in the front seat next to you. Know your limits.

Nor Cal Team 2 Safety Officers Terry O'Connell, Shelby Charley, Steve Davis SOF2

**INCIDENT RISK ANALYSIS**  
**Forks Complex**  
**(ICS 215A) Day Shift**

DIV	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS / WARNINGS / REMEDIES	
ALL	DRIVING HAZARDS	<ul style="list-style-type: none"> <li>• Narrow dusty roads exist.</li> <li>• Establish one-way traffic or coordinate traffic flow if necessary.</li> <li>• Drive defensively! Expect the unexpected around every curve.</li> <li>• Drive with headlights on; use chock blocks, keep windshields clean; look before backing; and use backers whenever available.</li> <li>• Don't drive when fatigued. Adhere to agency driving regulations and guidelines.</li> <li>• Use care when traveling on Highways 96, 93 and Sawyers Bar Road.</li> </ul>	
ALL	HAZARD TREES AND SNAGS	<ul style="list-style-type: none"> <li>• Scout work area for overhead hazards to ensure safe work areas.</li> <li>• Identify and communicate hazard to personnel. Mitigate using qualified personnel only.</li> <li>• Re-assess the need to eliminate the hazard by felling if it is feasible to keep personnel away.</li> <li>• If unable to mitigate hazard, <b>Flag Off area, communicate the location &amp; keep personnel away.</b></li> </ul>	
ALL	CUMMULATIVE FATIGUE	<ul style="list-style-type: none"> <li>• Monitor crews for signs of fatigue: poor decision making, easily distracted, reduced situational awareness.</li> <li>• Ensure you &amp; your crews receive adequate rest, nutrition &amp; hydration. Take frequent breaks, drink plenty of fluids and snack often throughout your shift to keep your body re-fueled.</li> </ul>	
ALL	COMMUNICATIONS	<ul style="list-style-type: none"> <li>• Share your Situational Awareness (hazards, changes, etc.) to those who also have a need.</li> <li>• Answer questions when asked by others. Ask for intel if and when you don't know the plan.</li> <li>• Ensure all personnel are familiar with the incident and IA communications plans.</li> </ul>	
Salmon River Rd & Sawyers Bar Rd	DEBRIS AND ROCK SLIDES	<ul style="list-style-type: none"> <li>• Any amount of rain will cause loosening of Soils, Rocks, and Trees due to Burn Scar.</li> <li>• Expect debris/rocks in roadways as you travel. Expect the unexpected around every curve.</li> <li>• Notify your supervisor if you find debris blocking or limiting access on any road.</li> </ul>	
ALL	ENVIRONMENTAL HAZARDS	<ul style="list-style-type: none"> <li>• Keep alert for wildlife, insects, and plants. Watch footing and hand placement around rocks.</li> <li>• Keep food out of tents and from around sleeping areas to prevent wildlife night visits.</li> <li>• <b>Personal hygiene is #1 when it comes to Poison Oak Prevention.</b></li> </ul>	
ALL	EXTREMELY STEEP TERRAIN AND ROLLING MATERIAL	<ul style="list-style-type: none"> <li>• Concentrate on your footing placement; take your time.</li> <li>• Ensure adequate spacing between crewmembers so they can react to dislodged debris.</li> <li>• Post lookouts to warn of rolling debris. <b>SHOUT out to warn others.</b></li> <li>• Look Up, Down and Around Frequently.</li> </ul>	
Branch 1	MINE SHAFTS AND ADDITS	<ul style="list-style-type: none"> <li>• Abandoned mine shaft openings and vent holes. Identify, Flag area, Make known to personnel.</li> <li>• Keep heavy equipment clear of area.</li> <li>• Hazardous Materials and explosives can often be found around mine sites.</li> </ul>	
ALL	HYDRATION	<ul style="list-style-type: none"> <li>• <b>Pre-hydrate, Re-hydrate to keep from becoming dehydrated.</b></li> <li>• <b>Dehydration is PREVENTABLE.</b></li> <li>• Be alert for signs of heat illness in yourself and others.</li> <li>• Drink 2 to 1 water to sports drinks.</li> </ul>	
DIV B, C, D Z	HEAVY EQUIPMENT	<ul style="list-style-type: none"> <li>• Utilize appropriate PPE and equipment safety mechanisms.</li> <li>• Maintain safe working distances.</li> <li>• Utilize observer or spotter.</li> <li>• Ensure the use of effective communication (radio, hand signals).</li> </ul>	
DIV B, C, D Z	CHIPPER OPERATIONS	<ul style="list-style-type: none"> <li>• Ensure JHA is provided and signed by operators.</li> <li>• Only qualified personnel will feed the chipper.</li> <li>• Ensure appropriate PPE is used including eye and hearing protection.</li> </ul>	
DIV B, C, D G, H, K T, W, Z	AIRCRAFT OPERATIONS	<ul style="list-style-type: none"> <li>• Keep personnel out of drop zones when bucket work in progress.</li> <li>• Use air-to-ground frequency to communicate with aircraft.</li> <li>• Use clear, concise statements when directing aircraft. Use clock directions from pilot's perspective.</li> </ul>	
INCIDENT NAME: <b>Forks Complex</b>  ICS 215a	DATE PREPARED: <p style="text-align: center;"><b>August 29, 2013</b></p>	OPERATIONAL PERIOD <b>Day Shift 08/30/13</b> <b>0600-1800</b> Prepared by: S. Davis, S. Charley SOF2	
	TIME PREPARED: <b>1600 HOURS</b>		

# AIR OPERATIONS SUMMARY

Prepared By:

Prepared Date: 8/29/2013

Prepared Time: 21:30

<b>1. INCIDENT NAME:</b> Forks Complex	<b>2. OPS PERIOD DATE:</b> 8/30/2013	<b>START TIME:</b> 0900	<b>END TIME:</b> 2100	<b>SUNRISE:</b> 0638	<b>SUNSET:</b> 1956
<b>3. REMARKS (Safety Notes, Hazards, Air Operations, Special Equipment, etc.):</b> Watch for wires in the Salmon river canyon. Beware of rapidly changing VFR conditions due to smoke and Wx Avoid no-fly zone over Klamath and Salmon river confluence unless unsafe.					
			<b>4. READY ALERT AIRCRAFT</b> MEDEVAC- 4LA I.A. - 512		
			<b>5. TFR #:</b> 3/9102 Altitude: 11,000' MSL Frequency: 120.0250		

6. PERSONNEL	NAME	PHONE #	7. FREQUENCIES	AM	FM	8. FIXED-WING- Type/ Make-Model/ N#/ Base
AOB	Dennis Kuster	209-352-0855	AIR/ AIR FW	120.0250		AIRTANKERS - Order as needed
ASGS	Staci Dickson	530-277-5153	AIR/ AIR RW	132.2750		LEAD PLANES- Order as needed
ATGS (T)	Carl Piper	530-295-7273	AIR/ AIR RW- FF		163.1500	ATGS AIRCRAFT- AA1176Z
ATGS			AIR/ GROUND	Command Tactical	171.5375 171.1375	
ATGS(T)			COMMAND	TX	168.0750	
HEB1	Joel Torres	530-598-9323	TX	Tone 3	170.4250 t-3	
HEB1 (T)	Sam Martin		DECK		163.100	
Scott Valley Helibase	Phone	530-468-1294 530-468-5495	TOLC			
Helibase	FAX	530-468-2118				
Air Ops Desk						OTHER FW AIRCRAFT-

**9. HELICOPTERS (Use Additional Sheets as Necessary)**

FAA N#	T	MAKE/ MODEL	BASE	AVAIL	START	REMARKS	FAA N#	T	MAKE/ MODEL	BASE	AVAIL	START	REMARKS
	Y							Y					
H-503	3	Bell 407	Scott Vly	0700									
H407PA	3	Bell 407	Scott Vly	0700									
H-502	2	Bell 205	Scott Vly	0700									
H507	2	Bell 209	Scott Vly	0700									
HT782	1	S64	Scott Vly	0700									

10. TASK/ MISSION/ ASSIGNMENT (Type/ function includes: Air Tactical, Retardant, Recon, Personnel Transport, Bucket Operations, SAR, etc.)	NAME OF PERSONNEL OR CARGO (If applicable) or instructions for tactical aircraft	MISSION START	FLY FROM	FLY TO
Water Dropping		As Needed		
Recon	IC plus 2-3 additional passengers.	1030	H11	
		As Needed		
Cargo		As Needed		





# M.I.S.T. GUIDELINES ( SRF – KNF – SHF )

## MINIMUM IMPACT SUPPRESSION TECHNIQUES

Wilderness areas are areas that are protected by law and are managed to preserve their natural conditions for present and future generations. The following Minimum Impact Suppression Techniques (MIST) are guidelines intended to significantly reduce the impacts associated with fire suppression and incident management activities in Wilderness areas.

**SAFETY** Safety is of paramount importance. Incident personnel should constantly be aware of their surroundings and the Eight Principles of Safety, the 10 Standard Firefighting Orders and the 18 Watchout Situations when applying MIST techniques.

### **LINE OPERATIONS**

- Use natural barriers, wet line or cold trail techniques, rather than constructing line. Consider burnout from natural barriers to minimize line construction.
- When constructed line is necessary, use the minimum width, depth and canopy clearance necessary to check fire spread, based on fire behavior. Locate line to minimize impacts. Consider use of fireline explosives for line construction.
- Do not put line construction debris in streams.

### **GREEN TREES, BURNED TREES AND SNAGS**

- Scrape around tree bases near fireline if hot and likely to cause fire spread.
- Inside fireline: remove or limb only those fuels that if ignited would have potential to spread fire outside the fireline.
- Identify hazardous trees with an observer or flagging.
- Use Saw Use guidelines.

### **SAW USE**

- Minimize the amount of cutting.
- Live trees will not be cut, unless it is determined they will cause fire spread across the fireline or endanger workers or the public.
- Slope/angle saw cuts away from line of sight to minimize visual impacts. Rub dirt or ash on stumps and log ends to camouflage them. Do not crosshatch/etch.
- If trees must be felled inside the line, do not limb or buck them. Allow the fire to consume them.

### **INDIRECT ATTACK**

- Do not fall snags on the intended unburned side of the constructed fireline, unless they are safety hazard to crews or the public.
- On the unintended burn-out side of the line, fall only those snags that would reach the fireline should they burn and fall over.
- Consider alternative means to falling, i.e., fireline explosives, bucket drops.
- Consider all items in Section B, the Fire Line Phase.

### **AIR OPERATIONS**

- Limit the use of retardant. Use water drops (preferred) or foam instead. When foam or retardant use is appropriate, avoid dropping near surface water.

### **HELISPOT CONSTRUCTION**

- Minimize the number of helispots constructed in Wilderness.
- Evaluate carefully whether it is necessary to construct a helispot or whether an alternative outside Wilderness can be used.
- If a helispot is only needed for logistical support to deliver and retrieve supplies or gear, consider using a long line remote hook in lieu of constructing a helispot. If a helispot is needed for crew shuttle, consider the minimum size helicopter that could do the job and still meet suppression objectives.
- Use natural openings as much as possible. If some tree falling or cribbing is necessary, avoid high visitor use locations unless the modifications can be rehabilitated to be generally unnoticeable. Feather the opening so that it appears more natural looking.
- Whenever possible, the Resource Advisor should provide specific instructions and observe the construction of helispots.
- Naturalize helispots before abandoning

### **SPIKE CAMPS AND CAMP ACTIVITIES**

- Camps and other facilities will be located outside of wilderness whenever possible.
- A Resource Advisor will be consulted prior to establishing spike camps and use will be discontinued if resource damage occurs.

### **MOP-UP PHASE**

- Cold trail rather than scraping or digging whenever possible to detect hot areas.
- Roll or drag fuels into the interior and allow them to burn out, rather than mopping them up and roll logs rather than bucking.
- Pull hot material away from the bases of trees, rather than felling them.
- Remove or limb only those fuels that if ignited, have potential to spread outside the fireline.

### **PERSONAL CONDUCT**

**Leave No Trace – Pack it in - Pack it out**

**Confirmed approval for use of mechanized equipment – Chainsaws / Helicopter Use**

## The 5-D System for Effective Waterbars

When locating and building waterbars, place them the right **distance** apart, at a **diagonal** to the fireline, so that they **divert**, then **discharge**, then **dissipate** the energy of the flowing water. Be sure to make them deep enough so they'll be durable, and that soil does **not block** the water bar outlet.

### Recommended spacing for waterbars on firelines.

Fireline slope %	Maximum Distance Apart (feet)
1-5	200
6-20	125
21-40	60
41-60	40
>60	25

*Waterbars should be at least 2 pulaski widths (4-6 inches) wide and 12-24 inches high for handlines.*

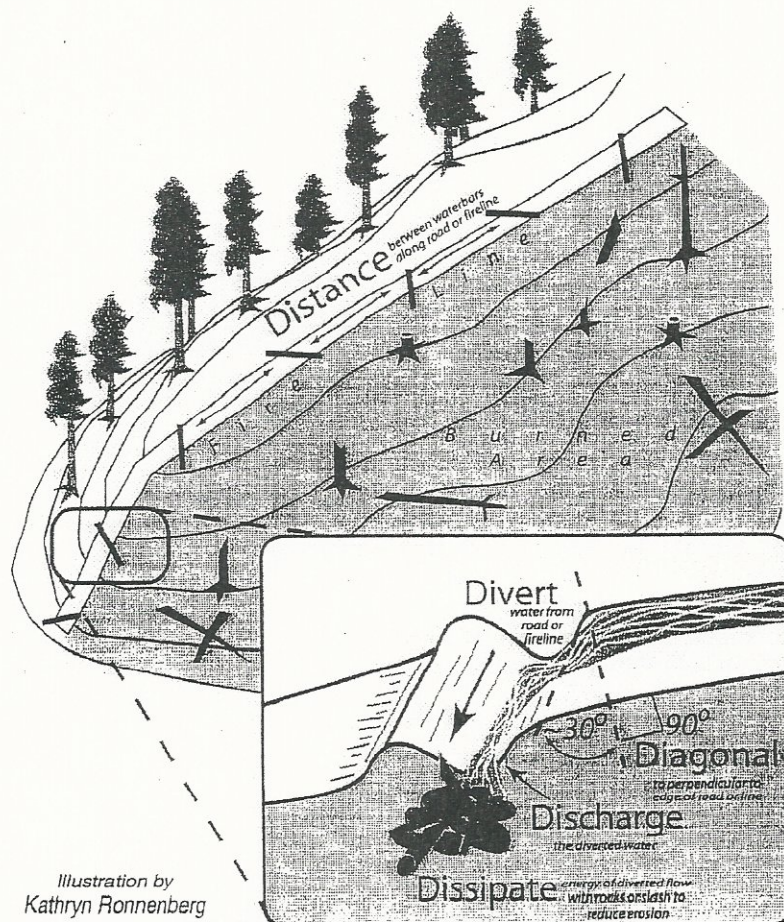


Illustration by  
Kathryn Ronnenberg

# ***TRAINING SPECIALIST MESSAGE***

A Training Specialist is assigned to the incident  
with NorCal Team 2

All federal, state, and local government agency  
trainees, who have not already done so, should  
register with the Incident Training Specialist in  
order to receive proper credit for your  
assignment.

The TNSP desk is in the ICP - and is located in  
the ICP adjacent to Check-in.

*Brad Smith*  
Training Specialist





