

# Incident Action Plan

## Trailhead Fire

CA-NEU 015200

PNKQC6



Thursday / Friday

**NIGHT SHIFT**


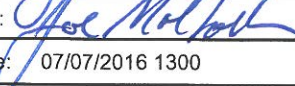
07/07-08/16

1800-0600


FIRE INFORMATION PHONE # 530-303-7006



## INCIDENT OBJECTIVES (ICS 202)

<b>1. Incident Name:</b>		<b>2. Operational Period:</b> NIGHT	
TRAILHEAD		Date/Time From: 07/07/2016 1800 THU	Date/Time To: 07/08/2016 0600 FRI
<b>3. Objective(s):</b>			
Management Objectives:			
<ul style="list-style-type: none"> <li>• Ensure that strategies and tactics provide for firefighter safety through the application of sound risk management principles.</li> <li>• Conduct all suppression repair work in close coordination with assigned READ's and cooperators in compliance with approved Fire Suppression Repair Plan.</li> <li>• Provide necessary support to ensure a smooth transition back to the local unit.</li> </ul>			
<b>4. Operational Period Command Emphasis:</b>			
Control Objectives:			
<ul style="list-style-type: none"> <li>• Maintain existing containment lines and strengthen to the degree necessary.</li> <li>• Implement approved components of the Fire Suppression Repair Plan.</li> </ul>			
<b>General Situational Awareness:</b>			
<ul style="list-style-type: none"> <li>• See attached weather forecast.</li> <li>• See attached safety message.</li> </ul>			
<b>5. Site Safety Plan Required?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
<b>Approved Site Safety Plan(s) Located at:</b>			
<b>6. Incident Action Plan</b> (the items checked below are included in this Incident Action Plan):			
<input checked="" type="checkbox"/> ICS 202	<input type="checkbox"/> ICS 207	Other Attachments:	
<input checked="" type="checkbox"/> ICS 203	<input type="checkbox"/> ICS 208	<input checked="" type="checkbox"/> 215A	
<input checked="" type="checkbox"/> ICS 204	<input type="checkbox"/> ICS 220	<input type="checkbox"/> _____	
<input checked="" type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Map/Chart	<input type="checkbox"/> _____	
<input type="checkbox"/> ICS 205A	<input checked="" type="checkbox"/> Weather Forecast/Tides/Currents	<input type="checkbox"/> _____	
<input checked="" type="checkbox"/> ICS 206			
<b>7. Prepared by:</b> JOHN OWEN		Position/Title: PSC2 (T)	Signature: 
<b>8. Approved by Incident Commander:</b>		Name: DAREN DALRYMPLE	Signature: 
ICS 202	IAP Page	Date/Time:	07/07/2016 1300

## ORGANIZATION ASSIGNMENT LIST (ICS 203)

<b>1. Incident Name:</b>		<b>2. Operational Period:</b> NIGHT	
TRAILHEAD		Date/Time From: 07/07/2016 1800 THU	Date/Time To: 07/08/2016 0600 FRI
<b>3. Incident Commander(s) and Command Staff:</b>			
		CHIEF	AARON LOWE / DUSTIN MARTIN
UC	RICK YOUNG / SCOTT LINDGREN/ DAREN DALRYMPLE (T)	DEPUTY	
DEPUTY	JOE MOLHOEK	SUPPLY UNIT	DAVE ALICEA / KEN KUMPE (T)
SAFETY OFFICER	STEVE DAVIS TERRY O'CONNELL SHELBY CHARLEY	FACILITIES UNIT	RIC CROWTHER ROBIN DAVIS (T)
INFORMATION OFFICER	ADRIENNE FREEMAN / COREY WILFORD	GROUND SUPPORT UNIT	JOHN FELL / HARRY ZABEL
LIAISON OFFICER	TIM FIKE	COMMUNICATIONS UNIT	DON STONER
		MEDICAL UNIT	PAT YOUNG RICH LUCIUS (T)
<b>4. Agency/Organization Representative(s):</b>			
<b>Agency/Organization</b>	<b>Name</b>		
AGENCY ADMIN	LAURENCE CRABTREE / MIKE KASLIN GEORGE MORRIS III	<b>7. Operations Section:</b>	
AGENCY ADMIN REP	PATRICIA TRIMBLE	DAY OPS SECTION CHIEF	ERIC PETTERSON
LEAD RESOURCE ADVISOR	JOHN JUE JENNIFER HOUSE	NIGHT OPS SECTION CHIEF	DUSTAN MUELLER
CAL OES	GARY HUMPHREY R4	PLANNING OPS	JASON WITHROW (T)
LINE OFFICER AEU		OPS SECTION CHIEF	DAN GEORGE
LINE OFFICER NEU	SCOTT LINDGREN		
CDCR AGENCY REP	LT MIKE HILL 209 639 8627	DIVISION/GROUP	A CHARLIE HARRISON (STCR)
EL DORADO CNTY LAW BRANCH	TODD CRAWFORD	DIVISION/GROUP	L / P JOHN GOSS
		DIVISION/GROUP	T / X / Z HEATHER MCRAE
<b>5. Planning Section:</b>			
CHIEF	JEFF BUSCHER JOHN OWEN (T)	<b>7b. Air Operations Branch:</b>	
DEPUTY	PATRICK FARRELL	AIR OPS BRANCH DIRECTOR	STACI DICKSON DOUG MAROLF (T)
RESOURCES UNIT	DUANE MILLER / ROBERTA LIM / MICHAEL DUNKEL (T)	AIR SUPPORT SUPERVISOR	
SITUATION UNIT	MATT BROWN KEITH FLOOD / JOHN MOHOFF (T)	<b>8. Finance/Administration Section:</b>	
DOCUMENTATION UNIT	JEFF DEARDORFF	CHIEF	BETH LOPEZ DEBBIE PARLIN (T)
DEMOBILIZATION UNIT	DAN BAGGAO	TIME UNIT	PENNY PORTLOCK HEATHER ARCHIBALD
FIRE BEHAVIOR ANALYST	KEN LARSON TERESA RIESENHUBER (T)	COMPENSATION UNIT	TINA KENNEDY
TRAINING SPECIALIST	BRAD SMITH	COST UNIT	SAM RAPPAPHAHN
GIS SPECIALIST	MARK GRUPE / MELANIE KERR STEVE WALTERSHIED (T)	EQUIPMENT TIME	FERN SHEPHERD
COMPUTER SPECIALIST	SHANE NEAL / ZACH SOHL		
INCIDENT METEOROLOGIST	MIKE SMITH		
STATUS CHECK-IN	JORDAN WEBER / EAMON ENGBER (T)		
<b>6. Logistics Section:</b>			
<b>9. Prepared By:</b> Name: MICHAEL DUNKEL		Position/Title: RESL (T)	Signature: 
ICS 203	IAP Page	Date/Time: 07/07/2016 0649	

# FIRE BEHAVIOR FORECAST

<b>FORECAST NUMBER:</b> 16	<b>TYPE OF FIRE:</b> Wildland Fire
<b>FIRE NAME:</b> Trailhead Fire	<b>OPERATIONAL PERIOD:</b> July 7-8, 2016 Night Shift 1800 – 0600
<b>DATE ISSUED:</b> July 7, 2016	<b>TIME ISSUED:</b> 1045
<b>UNIT:</b> Eldorado NF, Georgetown R.D. & NEU (Cal-Fire)	<b>SIGNED:</b> <i>Isl Teresa Riesenhaber</i> , FBAN-T

## INPUTS

**WEATHER SUMMARY:** \*\*\*See attached Fire Weather Forecast\*\*\*

**Discussion:** Overall, little change in the weather pattern is expected. Expect weather to be similar to last night. A slight drop in stability may reduce humidity recovery a bit.

**Weather:** Fair skies. Inversions settling in after 2100 hrs.

**Temp:** 57-62° **RH:** Ridgetops 58% and valleys 72%

**Winds (eye level):** Slope/Valley downslope/downcanyon < 2 mph gusts to 4 mph; Ridgetops SE < 2 mph gusts to 4

**10 hr fuels:** 5% **1000 hr fuels:** 10% **Live Fuel Moisture:** 100%

## FIRE BEHAVIOR

### GENERAL

Most fire activity will take place during the daylight hours and is expected to be light. Any new starts or fire crossing the containment lines have potential for upslope runs with occasional short duration torching and short range spotting.

After dark fire activity will subside with very little spread. Division Z has the greatest potential for fire activity however, that it will be minimal.

Fire is holding well within established control lines throughout the fire area. Any remaining interior green islands will continue to burn down. Be alert for snags, stump holes, fire weakened trees, unknown mines, and dirty burn areas near control lines that have re-burn potential.

**Rate of Spread (Head Fire)** Open Timber: < 2 ch/hr Closed Timber w/ Understory: 3-11 ch/hr Brush: 10-30 ch/hr

**Flame lengths (Head Fire)** Open Timber: 0-1 foot Closed Timber w/ Understory: 4-7 feet Brush: 7-12 feet

**Backing/Flanking Worst Case:** Rate of Spread < 2 ch/hr Flame Lengths < 4 feet

**POI:** 20-30% **Spotting Potential:** less than 1/10 mile

**Local Fire Danger:** ENF Actual 7/5 ERC = 76 BI = 55

### SPECIFIC FIRE BEHAVIOR

**Division A, Z:** The main fire continues to burn down above the American River. Should fire cross the American River from Division Z during the day, fire activity will increase with the potential for upslope or lateral runs where slope and wind align. After dark, with the humidity and fuel types, the fire will lay down with low rates of forward spread.

## AIR OPERATIONS

Becoming stable with inversions settling in after 2100.

Sunset: 20:31

Sunrise (07/07): 05:46

## SAFETY

Snags continue to fall and pose a risk to firefighter safety while engaging in fire suppression operations. Oak trees in the lower elevations are notorious for being weakened from fire activity; watch out for breaking limbs and falling trees. Take the time to assess work areas when mopping up as intense fires in the duff material may have weakened root systems making it easier for trees to uproot; especially in the mixed conifer fuels.





# INCIDENT Weather Forecast



**FORECAST NO:** 13 **NAME OF FIRE:** Trailhead

**PREDICTION FOR:** Thursday Night **SHIFT** **UNIT:** NEU

**SHIFT DATE:** July 7/8, 2016

**SIGNED:** Mike Smith *Mike Smith*

**TIME AND DATE** **Incident Meteorologist**

**FORECAST ISSUED:** July 7, 1100

**WEATHER DISCUSSION:** An upper level low pressure system will be dropping into the Pacific Northwest overnight. Overall, little change in the weather pattern is expected initially with conditions tonight expected to come in similar to last night. A slight drop in stability may reduce humidity recovery a bit. Relatively light winds going into the evening hours will transition to nighttime downslope and downcanyon by mid evening as they have the last several nights. The upper low will continue to dig southward on Friday bringing a little cooler temperatures, slightly higher humidity and a small increase in southwest ridge winds in the afternoon. The upper low is forecast to drop into northwest California on Saturday. This will bring an increase in southwest winds that will likely impact most of the fire area. It will, however, also bring a significant drop in temperature and increase in humidity.

## **WEATHER FORECAST:**

**WEATHER:** Fair skies.

**TEMPERATURES:** Minimum temperatures 57-62.

**HUMIDITY:** Maximum humidity recovery 58% ridgetops to 72% canyon bottoms. Highest ridgetop RH around midnight then decreasing slightly during the early morning hours.

### **20 FT WINDS:**

**RIDGETOP -** Southwest 3-5 gusts to 8 mph becoming southeast 2-5 after about 2100 with occasional gusts to 8 mph overnight.

**SLOPE/VALLEY -** Upslope to upcanyon 2-5 mph with occasional gusts to 8 mph becoming downslope to downcanyon 1-4 gusts to 7 mph after about 2100.

**STABILITY/INVERSION:** Inversions settling in after about 2100. Stable conditions through the night.

**OUTLOOK For Friday:** Mostly Sunny skies in the morning with increasing high clouds in the afternoon. Max temps 81-87. Minimum RH 24-30%. Ridge winds southeast 1-5 gusts to 8 mph becoming southwest 3-6 gust to 9 mph after about 1000. Occasional Gusts to 12 mph in the afternoon. Slope winds downslope to downcanyon 1-4 gusts to 7 mph becoming upslope to upcanyon 2-5 mph after about 1000. Gusts to 10 mph in the afternoon upper slopes.

**OUTLOOK FOR Saturday:** Partly cloudy skies. Max temps 75-82. Morning min temp 55-60. Minimum RH 34-40%. Morning Max RH recovery 65-75%. Ridge winds southeast 1-5 gusts to 8 mph becoming southwest 5-10 mph after about 1000. Gusts to 15 mph in the afternoon. Slope winds downslope to downcanyon 1-4 gusts to 7 mph becoming upslope to upcanyon 2-5 mph after about 1000. Gusts to 12 mph in the afternoon. Upper slopes may see gusty and variable winds as upper ridge winds mix down under less stable conditions.

**EXTRA INFORMATION:** Sunset Thursday 20:31 Sunrise Friday 05:46 Night length 9 hr 15 min

Bucks Flat WX @ 2760 ft Time 0537 Temp 59 RH 63% Wind North 2-3 mph

## Division/Group Assignment List (ICS 204 WF)

<b>1. Incident Name:</b>			<b>3.</b>			
TRAILHEAD			<b>Branch:</b>		<b>Division/Group:</b>  <b>A</b>	
<b>2. Operational Period:</b> <span style="float: right;"><b>NIGHT</b></span>						
Date/Time From: 07/07/2016 1800      THU		Date/Time To: 07/08/2016 0600      FRI				
<b>4. Operations Personnel</b>						
<b>OPERATIONS CHIEF</b>		DUSTAN MUELLER		<b>AIR OPERATIONS BRANCH DIRECTOR</b>		STACI DICKSON
<b>STEN</b>		TOM LUBAS				
<b>5. Resources Assigned this Period</b>						
Strike Team / Task Force / Resource Designator		LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
ENG3 9160C E-53		07/13	TOM LUBAS	18	ON DIVS/	0600/
<b>6. Control Operations/Work Assignments:</b>						
<ul style="list-style-type: none"> <li>Patrol and mop-up where safe to do so.</li> </ul>						
<b>7. Special Instructions:</b>						
<ul style="list-style-type: none"> <li>Backhaul any equipment not needed.</li> </ul>						
<b>8. Division/Group Communication Summary</b>						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	168.1000 N	123.0	170.4500 N	123.0	A
TACTICAL	6	166.7250 N	123.0	166.7250 N	123.0	A
AIR TO GROUND CMD	13	166.9125 N		166.9125 N		A
AIR TO GROUND TAC	14	169.2875 N		169.2875 N		A
<b>9. Prepared By (Resource Unit Leader)</b>			<b>Approved By (Planning Section Chief)</b>		<b>Date</b>	<b>Time</b>
ROBERTA LIM <i>Roberta di</i>			JEFF BUSCHER <i>Jeff Buscher PSC2 (H)</i>		07/07/2016	0649

## Division/Group Assignment List (ICS 204 WF)

<b>1. Incident Name:</b>			<b>3.</b>			
TRAILHEAD			Branch:		Division/Group:  <b>L / P</b>	
<b>2. Operational Period:</b> <b>NIGHT</b>						
Date/Time From: 07/07/2016 1800                      THU		Date/Time To: 07/08/2016 0600                      FRI				
<b>4. Operations Personnel</b>						
<b>OPERATIONS CHIEF</b>		DUSTAN MUELLER		<b>BRANCH DIRECTOR</b>		
<b>DIVISION/GROUP SUPERVISOR</b>		JOHN GOSS		<b>AIR OPS BRANCH DIRECTOR</b>		STACI DICKSON
<b>5. Resources Assigned this Period</b>						
Strike Team / Task Force / Resource Designator		LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
ENG3 4660C E-10009		07/08	ZACK STOCKDALE	27	DP 61/1900	2400/
FEMP O-10021		07/15	ANDREW ESTRADA	1	DP 61/1900	2400/
FEMT O-10024		07/15	MICHAEL SHEPHERD	1	DP 61/1900	2400/
<b>6. Control Operations/Work Assignments:</b>						
<ul style="list-style-type: none"> <li>• Patrol and mop-up where safe to do so.</li> </ul>						
<b>7. Special Instructions:</b>						
<ul style="list-style-type: none"> <li>• Backhaul any equipment not needed.</li> <li>• Draft only from approved water sources; maps with approved sources available from DIVS.</li> </ul>						
<b>8. Division/Group Communication Summary</b>						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	168.1000 N	123.0	170.4500 N	123.0	A
TACTICAL	12	166.5500 N	123.0	166.5500 N	123.0	A
AIR TO GROUND CMD	13	166.9125 N		166.9125 N		A
AIR TO GROUND TAC	14	169.2875 N		169.2875 N		A
<b>9. Prepared By (Resource Unit Leader)</b>			<b>Approved By (Planning Section Chief)</b>		<b>Date</b>	<b>Time</b>
ROBERTA LIM <i>Roberta Lim</i>			JEFF BUSCHER <i>Jeff Buscher PSC2(+)</i>		07/07/2016	0649



## Division/Group Assignment List (ICS 204 WF)

<b>1. Incident Name:</b>			<b>3.</b>			
TRAILHEAD			Branch:		Division/Group:  <b>T / X / Z</b>	
<b>2. Operational Period:</b> <b>NIGHT</b>						
Date/Time From: 07/07/2016 1800                      THU		Date/Time To: 07/08/2016 0600                      FRI				
<b>4. Operations Personnel</b>						
<b>OPERATIONS CHIEF</b>		DUSTAN MUELLER		<b>BRANCH DIRECTOR</b>		
<b>DIVISION/GROUP SUPERVISOR</b>		HEATHER MCRAE ISAAC FLATTLEY (T)		<b>AIR OPS BRANCH DIRECTOR</b> STACI DICKSON		
<b>5. Resources Assigned this Period</b>						
Strike Team / Task Force / Resource Designator		LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
ENG3 ST 5780C E-10013		07/14	KYLE HUMPHREY	28	DP 42/1900	2400/
SOF2 O-10061		07/15	JASON JONES	1	DP 42/1900	2400/
FEMP O-20087		07/17	ANTHONY BALBIANI	1	DP 42/1900	2400/
FEMT O-20086		07/17	GAGE SCHLICE	1	DP 42/1900	2400/
<b>6. Control Operations/Work Assignments:</b>						
<ul style="list-style-type: none"> <li>• Patrol and mop-up where necessary and safe to do so.</li> </ul>						
<b>7. Special Instructions:</b>						
<ul style="list-style-type: none"> <li>• Backhaul any equipment not needed.</li> <li>• Draft only from approved water sources; maps with approved sources available from DIVS.</li> </ul>						
<b>8. Division/Group Communication Summary</b>						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	168.1000 N	123.0	170.4500 N	123.0	A
TACTICAL	10	154.2875 N	156.7	154.2875 N	156.7	A
AIR TO GROUND CMD	13	166.9125 N		166.9125 N		A
AIR TO GROUND TAC	14	169.2875 N		169.2875 N		A
<b>9. Prepared By (Resource Unit Leader)</b>			<b>Approved By (Planning Section Chief)</b>		<b>Date</b>	<b>Time</b>
ROBERTA LIM <i>Roberta Lim</i>			JEFF BUSCHER <i>Jeff Buscher</i> <i>PS22(17)</i>		07/07/2016	0649

**INCIDENT RISK ANALYSIS TRAILHEAD INCIDENT CA-NEU-15200 (ICS 215A) Night Shift**

DIV	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS / WARNINGS / REMEDIES				
ALL	<b>DANGER TREES</b>	<ul style="list-style-type: none"> <li>• Follow "Hazard Tree Safety" guidelines, IRPG pages 22.</li> <li>• Post lookouts, or use a spotter in mop-up areas with personnel.</li> <li>• Don't park vehicles or take breaks in high concentrations of hazard trees.</li> <li>• Establish trigger points for disengagement during high wind events".</li> </ul>				
ALL	<b>TRAFFIC &amp; DRIVING</b>	<ul style="list-style-type: none"> <li>• Practice "Defensive Driving" techniques.</li> <li>• Use spotters when backing.</li> <li>• Always use headlights.</li> <li>• Use warning lights when working on roads or traveling in smoke.</li> <li>• Observe posted speed limits.</li> <li>• Watch for logging trucks on Hwy 49 and Wentworth Road.</li> </ul>				
ALL	<b>MOP UP</b>	<ul style="list-style-type: none"> <li>• Conduct thorough briefing for all personnel (inside rear cover IRPG).</li> <li>• Use all required PPE, including eye protection.</li> <li>• Maintain proper spacing and overhead clearance.</li> <li>• Be alert for stump holes and root cavities.</li> <li>• Minimize exposure to smoke, and rotate personnel into clean air when practical.</li> <li>• Evaluate unburned islands/Increase situational awareness.</li> </ul>				
ALL	<b>STEEP TERRAIN &amp; ROLLING DEBRIS</b>	<ul style="list-style-type: none"> <li>• Maintain 8'-10' spacing when working &amp; walking.</li> <li>• Don't work above any personnel.</li> <li>• Evaluate necessity to send personnel in areas with limited access.</li> </ul>				
ALL	<b>SUPPRESSION REPAIR</b>	<ul style="list-style-type: none"> <li>• Conduct thorough briefing for all personnel (IRPG Inside back cover).</li> <li>• Use caution around heavy equipment.</li> <li>• Use all required PPE. Including hearing protection around equipment.</li> <li>• Maintain adequate spacing.</li> <li>• Establish line of communication with equipment operators.</li> </ul>				
ALL	<b>SPOT FIRES</b>	<ul style="list-style-type: none"> <li>• Size up prior to engagement.</li> <li>• Watch for multiple spots.</li> <li>• Ensure LCES is in place.</li> </ul>				
ALL	<b>HEAT RELATED ILLNESS (HRI) &amp; DEHYDRATION</b>	<ul style="list-style-type: none"> <li>• Drink 2 to 1 water to sports drinks.</li> <li>• Take Frequent breaks, minimum of 10 minutes every hour.</li> <li>• Recognize symptoms of HEAT RELATED ILLNESS which include Lack of energy, Headaches, dizziness, lack of rest, no hunger, poor eating habits, hot skin, and lack of sweating</li> </ul>				
ALL	<b>HEAVY EQUIPMENT OPERATIONS</b>	<ul style="list-style-type: none"> <li>• Ensure communications are established with operators.</li> <li>• Use hand signals if other communications are unavailable.</li> <li>• Maintain a 50'-100' exclusion area around equipment.</li> <li>• Use a spotter when backing.</li> </ul>				
ALL	<b>MINE SHAFTS, &amp; ADITS,</b>	<ul style="list-style-type: none"> <li>• Be alert for mine shafts, adits, etc. in fire area. They may not be identified on maps.</li> <li>• If found, flag area, notify all line personnel, DIVS, OPSC, &amp; SOFR, keep personnel out of area.</li> </ul>				
DIV T, P, X	<b>HIGH VOLTAGE POWER LINES</b>	<ul style="list-style-type: none"> <li>• Smoke can conduct electricity; stay 150' clear of lines / towers in heavy smoke.</li> <li>• Do not operate heavy equipment under power lines.</li> <li>• Do not park under power lines.</li> <li>• Watch for fallen power lines, stay 200' away, notify your supervisor</li> <li>• Follow power line safety guide in the IRPG page 24</li> </ul>				
INCIDENT NAME: <b>Trailhead</b>  ICS 215a		<table border="1" style="width: 100%;"> <tr> <td data-bbox="589 1516 1273 1677">DATE PREPARED:  <b>July 7, 2016</b></td> <td data-bbox="1273 1516 1568 1707">OPERATIONAL PERIOD <b>Night Shift 07/07/16</b> <b>1800-0600</b> Prepared by T. OConnell, S ,Davis, J. Washington (T).</td> </tr> <tr> <td colspan="2" data-bbox="589 1677 1568 1707">TIME PREPARED: <b>0900 HOURS</b></td> </tr> </table>	DATE PREPARED:  <b>July 7, 2016</b>	OPERATIONAL PERIOD <b>Night Shift 07/07/16</b> <b>1800-0600</b> Prepared by T. OConnell, S ,Davis, J. Washington (T).	TIME PREPARED: <b>0900 HOURS</b>	
DATE PREPARED:  <b>July 7, 2016</b>	OPERATIONAL PERIOD <b>Night Shift 07/07/16</b> <b>1800-0600</b> Prepared by T. OConnell, S ,Davis, J. Washington (T).					
TIME PREPARED: <b>0900 HOURS</b>						

Lookouts  
Communications  
Escape Routes  
Safety Zones

## Trailhead

Operation Period: 07/07/2016 Night 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 BUCKET DROPS	HEAVY EQUIPMENT HAZARD TREES COMPLACENCY
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*Be sure all elements of your safety plan are in place prior to engagement*

### Watch for Over Confidence During Mop Up

**\*Driving:** As you become more familiar with the road systems, we tend to increase speeds. Please be aware of this and keep speeds down, watch for people and vehicles along the roads, and drive defensively.

**\*PPE:** Please recognize that in low stress situations like mop up, it is easy to over-look the importance of wearing the appropriate PPE include eye protection.

**\*Work Area:** Familiarity with your work area can result in a lowering of awareness, especially as conditions change.

### Driving Habits

- Back your vehicle into parking spaces and **use a backer** when possible, you have the clearest view of backing hazards when you initially see where you are parking.
- Everyone in the vehicle needs to wear a seat belt before the tires roll.
- Watch your speed, recognize the posted speed limit and adjust your speed for current conditions.
- Maintain safe following distances
- Eliminate driver distractions
- Put your cell phone away if you are driving, it's the law.
- Keep your windshield clean.

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

<b>MEDICAL PLAN</b>	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED	4. OPERATIONAL PERIOD				
	Trailhead Fire	07/07/2016	1000	1800 to 0600 7/07 to 7/8, 2016				
5. INCIDENT MEDICAL AID STATIONS								
MEDICAL AID STATIONS		LOCATION			PARAMEDICS			
					YES	NO		
Medical Unit		ICP			XX			
Frontline Medical		ICP			XX			
FEMP Estrada and FEMT Shepherd		Division "L/P"			XX			
FEMP Balbiani and FEMT Schlice		Division "T/X/Z"			XX			
REM Team 1		Base Camp contact Comms Unit			XX			
6. TRANSPORTATION								
A. AIR RESOURCES								
NAME		LOCATION		PHONE	PARAMEDICS			
					YES	NO		
CalStar Air Ambulance (Day/Night)		Auburn, Ca.		Comms Unit	XX			
REACH Air Ambulance (Day/Night)		Lincoln, Ca.		Comms Unit	XX			
C.H.P. (hoist capable 165 feet, Day/Night Only)		Auburn, Ca.		Comms Unit	XX			
B. INCIDENT AMBULANCES								
NAME		LOCATION			PARAMEDICS			
					YES	NO		
El Dorado County 249 Branch I		I.C.P.			XX			
7. HOSPITALS								
NAME	ADDRESS	TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
		AIR	GRND		YES	NO	YES	NO
Sutter Auburn Faith Hospital	11815 Education Street Auburn, Ca.	10 minutes	50 minutes	530-888-4562	XX			XX
Marshall Medical Center	1100 Marshall Way Placerville, Ca	10 minutes	40 minutes	530-626-2717	XX			XX
Sutter Roseville Medical Center Level 2 Trauma Center N 38 45.58 W 121 14.52	1 Medical Plaza Dr. Roseville, Ca.	20 minutes	1.5 hours	916-781-1811	XX			XX
U.C. Davis Medic Center Level 1 Trauma Center N 38 33.17 W 121 27.05	2015 Stockton Ave. Sacramento, Ca.	25 minutes	1 hour 45 minutes	916-734-3790 ER 916-734-3636 BU	XX		XX	
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/Paramedic's and Medical gear carried by crew</li> <li>Crew Supervisor contacts Division with Nature of Emergency.</li> <li>Division Supervisor contact's 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> <li>Secure scene for investigation—keep a log</li> </ul> </li> </ul>				
ICS 206 8-78	9. PREPARED BY (MEDICAL UNIT LEADER) Patrick Young MEDL			10. REVIEWED BY (SAFETY OFFICER) Steve Davis SOF-2				




# INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

<b>1. Incident Name:</b>	<b>2. Date/Time Prepared:</b>	<b>3. Operational Period:</b>
TRAILHEAD	Date: 07/07/2016 Time: 0649	NIGHT
	Date/Time From: 07/07/2016 1800	Date/Time To: 07/08/2016 0600
		THU
		FRI

4. Basic Radio Channel Use:												
Zone Group	Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq	RX Tone/NAC	TX Freq	TX Tone/NAC	Mode (A,D, or M)	Remarks		
	1	COMMAND	NIFC C2	ALL DIVS	168.1000 N	123.0	170.4500 N	123.0	A	Tone 2		
	2	COMMAND	NIFC C9	ALL DIVS	170.0125 N	123.0	165.2500 N	123.0	A	Tone 2		
	3	COMMAND	CDF C7	ALT CMD	151.4600 N	103.5	159.3900 N	103.5	A	Tone 8		
	4	TACTICAL	NIFC T1	UNASSIGNED	168.0500 N	123.0	168.0500 N	123.0	A	Tone 2		
	5	TACTICAL	NIFC T3	UNASSIGNED	168.6000 N	123.0	168.6000 N	123.0	A	Tone 2		
	6	TACTICAL	NIFC T5	DIV A	166.7250 N	123.0	166.7250 N	123.0	A	Tone 2		
	7	TACTICAL	NIFC T6	UNASSIGNED	166.7750 N	123.0	166.7750 N	123.0	A	Tone 2		
	8	TACTICAL	NIFC T7	UNASSIGNED	168.2500 N	123.0	168.2500 N	123.0	A	Tone 2		
	9	TACTICAL	VFIRE 24	UNASSIGNED	154.2725 N	156.7	154.2725 N	156.7	A	Tone 6		
	10	TACTICAL	VFIRE 25	DIV T / X / Z	154.2875 N	156.7	154.2875 N	156.7	A	Tone 6		
	11	TACTICAL	VFIRE 26	UNASSIGNED	154.3025 N	156.7	154.3025 N	156.7	A	Tone 6		
	12	TACTICAL	R5 T4	DIV L / P	166.5500 N	123.0	166.5500 N	123.0	A	Tone 2		
	13	AIR TO GROUND	A/G CMD	ALL DIVS	166.9125 N		166.9125 N		A			
	14	AIR TO GROUND	A/G TAC	ALL DIVS	169.2875 N		169.2875 N		A			
	15	TACTICAL	CALCORD	ALL DIVS	156.0750 N	156.7	156.0750 N	156.7	A	Tone 6		
	16	AIR GUARD	GUARD	ALL DIVS	168.6250 N		168.6250 N	110.9	A	Tone 1		

**5. Special Instructions:**

<b>6. Prepared By</b>	Name: D STONER	Signature: 
(Communications Unit Leader)	IAP Page	Date/Time: 07/07/2016 0649

# READ/REAF

## FLAGGING

**Pink/Black Checkered = Protection**

Try to avoid impact to these sensitive resources

**Lime Green = Hazards**

Use Caution Mine Shafts and Other Hazards

Please contact Jon Jue or Jen House with any  
READ/REAF questions

Room 102

Jon Jue – 916-539-8999

Jen House – 530-503-7029

## Appendix A

### Effective Waterbars

The three objectives of waterbars are: 1) to divert the destructive overland flow of water off the fire line; 2) to discharge the overland flow onto areas where the erosive energy can be dissipated; and 3) to aid in the recovery of vegetation. The last objective will be achieved if erosion is prevented on the fire line surface. Erosion removes topsoil which holds a majority of the organic matter, nutrients, and water holding capacity of the soil profile. Waterbars are designed to intercept slopes, slow, and spread the precipitation run-off. The idea is to move water off the fire line before it can build up enough energy to erode soil and transport sediment.

**Spacing:** These spacing distances should be used as a guide. Judgement should be used in locating waterbars to minimize erosion potential. Install waterbars at the following recommended intervals

#### Dozer Line

Fire Line Gradient (% slope)	Distance Between Waterbars <sup>(A)</sup> (feet)
0 to 10	250
10 to 20	100
20 to 40	75
41 to 60 <sup>(B)</sup>	50 <sup>(B)</sup>

#### Hand Line

Fire Line Gradient (% slope)	Distance Between Waterbars <sup>(A)</sup> (feet)
0 to 5	No waterbars needed
6 to 15	200
16 to 30	100
31 to 50	75
51 to 60	50 <sup>(B)</sup>
>60	None <sup>(B)</sup>

(A) These are guidelines and not intended to restrict the implementation of more or less waterbars if the need or lack of need is justified.

(B) Firefighter safety should be taken into account, if slopes are too steep for safe implementation then waterbars should not be constructed, if sensitive resources are not present.

**Location:** Water should be directed to unburned areas, and/or resistant surfaces with high vegetation cover when possible. Waterbars should discharge into undisturbed areas and preferably rocky ground or filter areas well protected with ground and vegetation cover, whether rocks or organic materials. Waterbars should not direct water into stream channels.

**Depth and Width:** Waterbars need to be cut into surface, do not simply push up soil.

- Waterbar depths for **dozer lines** should be at least 6 inches; total height from bottom of ditch to the top of the waterbar should average at least 18 inches and not exceed 24 inches.

- Waterbar depths for **hand lines** should be at least 4 inches; total height from bottom of ditch to top of waterbar should average at least 8 inches and not exceed 12 inches. Higher waterbars do not necessarily mean better waterbars.

The width of the waterbar should extend beyond the width of the hand line by a minimum of 12 inches and up to 24 inches to prevent water exiting the waterbar from flowing back to the hand line. Sticks or rocks should be scattered at the outlet of waterbars to dissipate the velocity of water and minimize erosion (see Figure below). The outflow of the waterbar should be as wide as feasible to prevent deposited sediment from blocking water flow.

Angle: Waterbars should be placed at an angle relative to the fire line. The angle should be directed downhill into unburned vegetation and **between 30 to 45 degrees**. Angle is important, if the angle is too shallow, the water will slow down and deposit the sediment it carries in the waterbar, making it ineffective. If the angle is too steep, water will continue at high velocity and able to erode and carry additional sediment where it exits the waterbar.

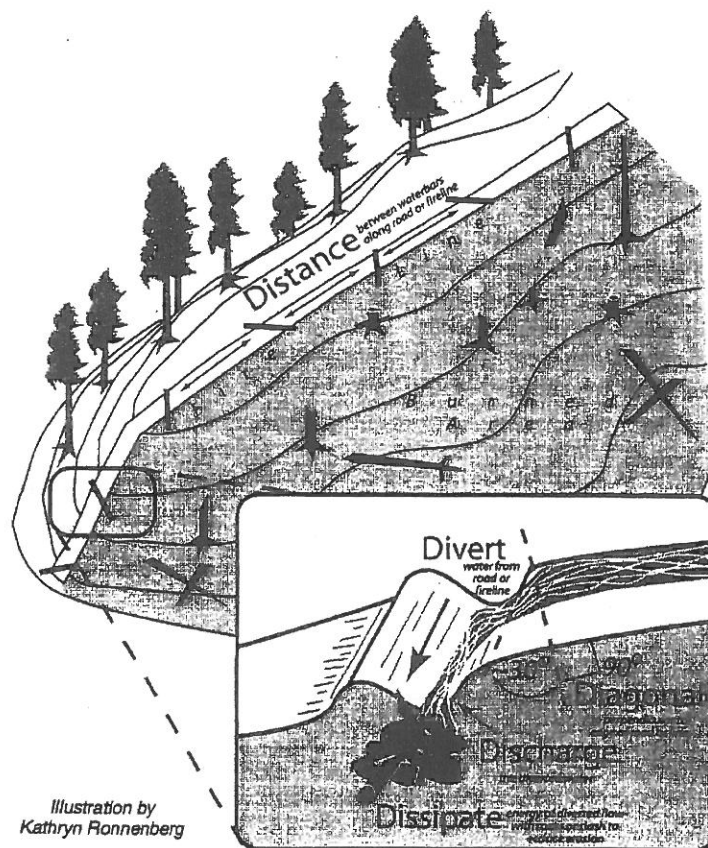


Illustration by  
Kathryn Ronnenberg

Figure 1 – Waterbar Installation

(Reference: Hauge, C.J., M.J. Furniss and F.D. Euphrat. 1979. *Soil erosion in California's Coast Forest District*. California Geology. June, 1979)



# NorCal 2 Division Fireline Order Form

Date & Time Order was placed	Order # (DIVS + #)	MODE OF DELIVERY	LOCATION OF Delivery
Current Date and Time:		GROUND SUPPORT	DIV, DP, LZ Lat Long
DATE NEEDED:		PICK UP IN SUPPLY	
TIME NEEDED:		HELO	

Order received in COMMUNICATIONS by:	Name:	Time:
Order Received in SUPPLY by:	Name:	Time:
Order shipped by Transportation or PU in Suppl	Name:	Time:

PLEASE ORDER BY ITEM NUMBER

#	Item 1 - IS the following: (i.e. if you need 3000' of hose & appliances, = 3 Hose Kit A's" or 3 item # 1's				
1	'1,000 Foot Hose Lay' and includes: 10ro 1½" Hose; 10ro 1" Hose; 10ea 1½" Gated Wyes; 10ea 1½" to 1" reducers; 10ea 1" nozzles				
#	Item	Amount	#	Item	Amount
1	<b>Hose Kit A</b>				
2	Hose (100'), 1½"		28	Fuses (Boxes or Cases?)	
3	Hose (100'), 1"		29	Batteries "AA" PKGs (24/PKG)/BX	
4	Hose (50') garden, ¾"		30	Ribbon, Flagging (Specify Color)	
5	Nozzle, KK Type, 1½"		31	Shovel	
6	Nozzle, KK Type, 1"		32	Pulaski	
7	Nozzle, Forester, 1"		33	Combi Tool	
8	Nozzle, Garden, ¾"		34	McCloud	
9	Wye, Gated, 1½"		35	Washcloth, waterless, cleansing	
10	Wye, Gated, 1"		36	Sprinkler Kit	
11	Wye, Gated, ¾"		37	Mop-Up Kit, 3-Wand	
12	Inline-Tee, (1½" x 1")		38	<b>Chainsaw Kit / {accountability #}</b>	
13	Reducer, 1½"x 1"		39	Water, Cubies	
14	Reducer, 1"x ¾"		40	Water, Bottled, Cases	
15	Shut Off ¾"		41	Gatorade, Cases	
16	Foam 5 gal		42	MRE's (12/BX)	
17	Backpack Pump			ANYTHING NOT LISTED ABOVE:	
18	Pumpkin 1500 / 3000 / 6000 gal order size				
19	Folding-Tank 1000 / 1500 gal order size				
	<b>PUMP KITS</b>				
20	<b>Lightweight / {accountability #}</b>				
21	<b>Mark III / {accountability #}</b>				
22	Fuel Unleaded (5 Gal cans)			ACCOUNTABILITY PROPERTY #'S HERE:	
23	Fuel Drip Torch (5 gal cans)				
24	Fuel Diesel (5 gal cans)				
25	2 Cycle oil (Pints)				
26	Bar Oil (Qts)				
27	Drip Torch (ea)				

SPECIAL NOTES:



FOR ALL MEDICAL EMERGENCIES: IDENTIFY ON SCENE INCIDENT COMMANDER BY NAME AND POSITION AND ANNOUNCE "MEDICAL EMERGENCY" TO INITIATE RESPONSE FROM IMT COMMUNICATIONS/DISPATCH.

Use items one through nine to communicate situation to communications/dispatch.

**1. CONTACT COMMUNICATIONS/DISPATCH**

Ex: "Communications, Div. Alpha. Stand-by for Priority Medical Incident Report." (If life threatening request designated frequency be cleared for emergency traffic.)

**2. INCIDENT STATUS:** Provide incident summary and command structure.

Nature of Injury/Illness		Describe the injury (Ex: Broken leg with bleeding)
Incident Name		Geographic Name + "Medical" (Ex: Trout Meadow Medical)
Incident Commander		Name of IC
Patient Care		Name of Care Provider (Ex: EMT Smith)

**3. INITIAL PATIENT ASSESSMENT:** Complete this section for each patient. This is only a brief, initial assessment. Provide additional patient info after completing this 9 Line Report.

Number of Patients:	Male / Female	Age:.	Weight:.
Conscious? <input type="checkbox"/> YES <input type="checkbox"/> <b>NO = MEDEVAC!</b>			
Breathing? <input type="checkbox"/> YES <input type="checkbox"/> <b>NO = MEDEVAC!</b>			
Mechanism of Injury: What caused the injury?			
Lat/Long (Datum WGS84) Ex: N 40° 42.45' x W 123° 03.24'			

**4. SEVERITY OF EMERGENCY, TRANSPORT PRIORITY**

SEVERITY	TRANSPORT PRIORITY
<input type="checkbox"/> <b>URGENT-RED Life threatening injury or illness.</b> Ex: Unconscious, difficulty breathing, bleeding severely, 2° – 3° burns more than 4 palm sizes, heat stroke, disoriented.	Ambulance or MEDEVAC helicopter. Evacuation need is <b>IMMEDIATE.</b>
<input type="checkbox"/> <b>PRIORITY-YELLOW Serious Injury or illness.</b> Ex: Significant trauma, not able to walk, 2° – 3° burns not more than 1-2 palm sizes.	Ambulance or consider air transport if at remote location. Evacuation may be <b>DELAYED.</b>
<input type="checkbox"/> <b>ROUTINE-GREEN</b> Not a life threatening injury or illness. Ex: Sprains, strains, minor heat-related illness.	Non-Emergency. Evacuation considered <b>Routine of Convenience.</b>

**5. TRANSPORT PLAN:**

**Air Transport:** (Agency Aircraft Preferred)

- Helispot  Short-haul/Hoist  Life Flight  Other

**Ground Transport:**

- Self-Extract  Carry-Out  Ambulance  Other

**6. ADDITIONAL RESOURCE/EQUIPMENT NEEDS:**

- |  |                                      |  |
|--|--------------------------------------|--|
| <input type="checkbox"/> Paramedic/EMT(s)                                  | <input type="checkbox"/> Crew(s)     | <input type="checkbox"/> SKED/Backboard/C-Collar |
| <input type="checkbox"/> Burn Sheet(s)                                     | <input type="checkbox"/> Oxygen      | <input type="checkbox"/> Trauma Bag              |
| <input type="checkbox"/> Medication(s)                                     | <input type="checkbox"/> IV/Fluid(s) | <input type="checkbox"/> Cardiac Monitor/AED     |
| <input type="checkbox"/> Other (i.e. splints, rope rescue, wheeled litter) |                                      |  |

**8. EVACUATION LOCATION:**

Lat/Long (Datum WGS84) EX: N 40 42.45' x W 123 03.24'	
Patient's ETA to Evacuation Location:	
Helispot/Extraction Size and Hazards:	

**9. CONTINGENCY:**