

BEAVER FIRE

Incident Action Plan

August 18TH, 2014

0600 - 2000

DANGER TREES

- Identify and flag all high risk danger trees
- Communicate to others in the area the presence of a danger tree
- Always scout your work area for overhead hazards
- Mitigate danger trees using qualified personnel only

MEDICAL EMERGENCIES

- Review and understand the medical plan in the IAP
- Base all operational activities on these three questions:
 - What are we going to do if someone gets hurt?
 - How will we get them out of here?
 - How long will it take to get them to a hospital?

DRIVING AND PUBLIC ON ROADWAY

- Reduce Driving Speeds to Allow For Reaction Time Lag
- Watch for Wildlife on Roads! There have been three vehicle vs deer accidents on this fire already!
- Expect the Unexpected Around Every Curve
- Slow Down for Pedestrians!

KEEP A HIGH LEVEL OF SITUATIONAL AWARENESS

Beaver Fire: CA-KNF-005497 P5H93T (0505)

Klamath National Forest

Northern California Incident Management Team 1

INCIDENT OBJECTIVES	1. Incident Name Beaver	2. Date 08/17/2014	3. Time 2000
----------------------------	---------------------------------------	----------------------------------	----------------------------

4. Operational Period
August 18, 2014 DAY SHIFT

INCIDENT OBJECTIVES

- 1) Ensure firefighter and public safety in all incident activities. Adhere to all safety standards and implement appropriate risk analysis.
- 2) Protect values at risk to include watershed, Late Successional Reserve, cultural resources, private timber lands and recreation sites.
- 3) Initiate suppression repair in accordance with established plans.
- 4) Keep the fire
 - (a) North of Highway 96
 - (b) East of Horse Creek Drainage
 - (c) West of Empire Creek Drainage
 - (d) South of Beaver/Dead Cow Creek Canyon and Condrey Mountain.

MANAGEMENT OBJECTIVE

- 1) Coordinate with Forest to maintain timely and accurate communications with communities, county officials and stakeholders.
- 2) Effectively manage incident costs by planning strategies and tactics toward a high probability of success.

6. Weather Forecast for Period

- See attached weather forecast.

7. General Safety Message

- See attached safety messages.

8. Attachments (mark if attached)

- | | | |
|---|--|---|
| <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"/> ICS215a |
| <input checked="" type="checkbox"/> Communications Plan - ICS 205 | <input checked="" type="checkbox"/> ICS 220 | <input type="checkbox"/> Rehab Considerations |

9. Prepared by (Planning Section Chief)
Valery Lambeth 

10. Approved by (Incident Commander)
Mike Minton 

ORGANIZATION ASSIGNMENT LIST		Facilities Unit	Frank DelCarlo, Jeff Huhtala, Ricky Crowther (t)
1. Incident Name Beaver		Ground Support Unit	Harry Zabel
2. Date August 17, 2014	3. Time 1900	Communications Unit	Phil Shafer, Rick Cartoscelli
4. Operational Period Day Shift August 18, 2014		Medical Unit	Ken Earle, Ryan Reginato (t)
Position	Name	Receiving & Distribution	Fred Johnson
5. Incident Commander and Staff		Security Manager	
Incident Commander	Mike Minton, Rick Young (t)	Food Unit	Jay Westlake
Deputy		9. Operations Section	
Safety Officer	Michele Tanzi, Jeff Barnhart, Bob Kafka	Operations	Steve Burns, Kurt Lindstrand (t)
Information Officer	Jim Mackenson	Planning Ops	Alec Lane
Liaison Officer	Kent Swartzlander	a. Division/Groups	
Human Resources	Diane Simpson, Shawn Holden (t)	Branch I	Mario Marquez, Mike Reed (t)
6. Agency Representative		Division/Group C	Jeremy Human
Agency Administrator	Patty Grantham	Division/Group E	Brett Loomis, Robert Vernachio (t)
Agency Admin Rep	Lance Noxon	Division/Group J	Mark Patino
Fruitgrowers Timber	Terry Salvestro	Division/Group K / L	Randy Jennings, Todd Nightingale (t)
Michigan Cal	Chris Chase	Division/Group Repair	Shawn Burt
County OES	Ron Quigley	b. Division/Groups	
Siskiyou Co. Sheriff	Corporal Weed	Branch II	Jay Lusher
Cal Trans	Ryan Gomes	Division/Group A / W	Jesse Knox, Kevin Halleran (t)
Cal Fire	Steve Curley	Division/Group P	Don Fregulia
IARR Region 9	Lauren Miles, Mitch Bouchonville	Division/Group Q / T	Mark Vardanega, Heather Munn(t)
IARR AK	Lisa Burns, Cheryl Vanderhorn	Division/Group U / V	Bryron Hart
IARR Southern Region	Tom Barnes	Division/Group	
CAL OES	Ishmael Messer	Division/Group	
7. Planning Section		c. Air Operations Branch	
Chief	Valery Lambeth, Walter Herzog (t)	Air Operations Branch Director	
Deputy	Dave Sinclear	Air Attack Supervisor	Curtis Coots / Rico Gonzalez (t)
Resources / Documentation / Demob Units	Gary Deboi, LouAnn Charbonnier, Rita Mustatia, Melissa Hennessey	Air Support Supervisor	Glenn Dietz
Situation Unit	Alan Taylor, Tim Ritchey (t)	Helicopter Coordinator	
Training	Seneca Smith	Air Tanker Coordinator	
CTSP	George Steel	10. Finance Section	
GIS	M. Dickenson, K. Felker, J. Gonzalez	Chief	Rachel Corkill
FBAN	John Wood	Time Unit	Maggie Prochazka
IMET	Tim Sedlock	Cost Unit	Kenny Lucien
8. Logistics Section		Compensation/Claims Unit	Debbie McIntosh
Chief	Mike Jellison, Brett Shurr	Procurement	Karrie Linn
Deputy	Ken Kumpe	Prepared by (Resource Unit Leader)	
Supply Unit	Richard Sheets	L. Charbonnier	
Ordering	Ron Pierce (t)		



INCIDENT Weather Forecast



FORECAST NO: 27

NAME OF FIRE: Beaver Fire

PREDICTION FOR: Monday DAY Shift

UNIT: Klamath National Forest

SHIFT DATE: August 18, 2014

SIGNED: Andy Haner/Tim Sedlock

TIME AND DATE

Incident Meteorologists

FORECAST ISSUED: 08/17/2014 at 2000 PDT

****Red Flag Warning for Thunderstorms Monday Afternoon/Evening****

WEATHER DISCUSSION: Fair relative humidity recoveries expected Monday morning. Very warm and dry low-level conditions will continue through the early part of this week. Increasing moisture in the mid-levels combined with instability will promote a chance for showers and thunderstorms Monday afternoon and evening, with increasing chances for wet precipitation.

WEATHER FORECAST: **Possible Critical Fire Weather Day**

Monday: **Thunderstorms imply strong gusty and erratic winds**

Weather: Partly cloudy. A chance of showers and thunderstorms after noon.

High Temperature... 91-96 canyon bottom, 79-86 mid-upper slopes (Little change from Sunday)

Min RH..... 16-22% canyon bottoms, 24-32% high elevations (Little change from Sunday)

20-FOOT WINDS:

Canyons..... Light morning winds, becoming upslope/upcanyon 5-8 mph in the afternoon.

Ridgetop..... Northeast winds up to 5 mph through the morning, becoming north-northwest 5-10 mph with gusts to 16 mph late in the afternoon.

CWR (>=0.10")....20%

LAL...3 (Scattered Lightning)

Haines Index....4 (Low)

Monday Night: **Thunderstorms imply strong gusty and erratic winds**

Weather: Considerable cloudiness through late evening...then becoming partly cloudy. A chance of evening showers and thunderstorms.

Low Temperature... 55-60

Max RH..... Fair recovery...55-70%

20-FOOT WINDS:

Canyons.....North-northwest 5-10 mph in the evening, becoming light downslope/downcanyon.

Ridgetop.....North-northwest 6-10 mph in the evening, decreasing to 2-4 mph overnight.

CWR (>=0.10")....20%

LAL...3 (Scattered Lightning)

Haines Index....3 (Very Low)

Outlook for Tuesday: **Thunderstorms imply strong gusty and erratic winds**

Weather: Partly cloudy. A slight chance of showers/thunderstorms in the afternoon/evening.

High Temperature... 90-95 canyon bottom, 77-84 mid-upper slopes (1-3 degrees cooler than Monday)

Min RH..... 20-25% canyon bottoms, 28-36% high elevations (2-3 percent wetter than Monday)

20-FOOT WINDS:

Canyons..... Light morning winds, becoming upslope/upcanyon 5-8 mph in the afternoon.

Ridgetop..... Northerly light morning winds becoming north-northwest 8-14 mph with gusts to 20 to 25 mph in the late afternoon and evening.

CWR (>=0.10")....10%

LAL....2 (Isolated Lightning)

Haines Index....3 (Very Low)

EXTENDED OUTLOOK for Wednesday - Friday:

A cooler air mass will bring daytime temperatures back down near normal for this time of year. The air mass will dry quite a bit for Thursday and Friday.

.Wednesday... Mostly clear. Lows 50-55. Highs 85-90 canyon bottom, 74-81 mid-upper slopes. Min RH 19-24% canyon bottoms, 25-35% ridges. Light and variable winds, becoming northwest 8-12 mph in the afternoon and evening with occasional gusts to around 16 mph.

.Thursday and Friday... Mostly Clear. Lows 47-54. Highs 85-90 canyon bottom, 74-81 mid-upper slopes. Min RH 12-17% canyon bottoms, 17-24% ridges. Light and variable overnight and morning winds, becoming north-northwest 6-10 mph in the afternoons and evenings.

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 31

TYPE OF FIRE: Wildland Fire

FIRE NAME: Beaver

OPERATIONAL PERIOD: 8/18 0600 to 2000

DATE ISSUED: 8/17/14

TIME ISSUED: 2000

UNIT: Klamath N.F.

SIGNED: /s/ John Wood FBAN

INPUTS

WEATHER SUMMARY: Fair relative humidity recovery expected Monday morning. Very warm and dry low-level conditions will continue through the early part of this week. Increasing moisture in the mid-levels combined with instability will promote a chance for showers and thunderstorms Monday afternoon and evening, with increasing chances for precipitation. Maximum temperatures canyon bottoms 91-96 degrees, mid-upper slopes 79-86 degrees. Minimum relative humidity canyon bottoms 16-22 percent, canyon bottoms 24-31 percent. Winds: Valleys, light morning winds becoming upslope/up canyon 5 to 8 mph in the afternoon. Ridge winds, Northeast up to 5 mph morning, becoming North-Northwest 5-10 mph with gusts to 16 mph.

Haines: 4

ERC- 64

Red Flag Warning for Thunderstorms

OUTPUTS

GENERAL: Smoke from other incidents in the area, the Happy Camp Complex and the July Complex, will affect the fire activity by providing a minor shading effect and slightly moderating fire behavior. Drought stressed critically dry fuels, in general are about six weeks ahead of normal. Fire activity should reach peak burning conditions around 1500 and remain there until approximately 2100. Rates of spread in timber fuels up to 10-15 ch/hr and 6 foot flame lengths where wind and slope align. Rates of spread in brush/grass up to 24 ch/hr with flame lengths 4-6 ft. These fuels will need a combination of wind and slope to spread at the higher forecast levels. Anticipate spread rates on average to range from 1-5 ch/hr.

SPECIFIC:

Fuel moisture: 1hr 3-6% 1000 hr 7% Live 78% Prob. of ign. 60-90% Spot distance up to .2 of a mile. Outflow winds could increase spotting distance by four times the distance.

Branch I: The upper end of Doggett Creek in Division K/L should be a focus area. This area is close to the point of ignition and has shown low fire behavior with slow rates of spread. Drying fuels have led to an increase in activity with torching and spotting assisting in the movement of the fire. Activity will remain elevated with rates of spread around 2 ch/hr.

Branch II: Activity in Fish Trap Creek will remain a continuing area of concern following the fire reaching the creek. With the heat present close to the line, this area should be a spotlight for potential spots. Activity in the island should start slowing as available fuels are consumed.

Initial Attack: New starts below 3000 feet will initiate and spread quickly in light fuels. Above 3000 feet heavier fuels will not spread as rapidly but will generate intensity as they spread. Above 5800 feet fire spread will be slowed with higher fuel moistures and large open areas with discontinuous fuels. Torching and group torching will be possible with new starts and spotting should be a concern when this occurs. If thunderstorms are in the area, outflow winds could cause a sudden increase in fire behavior and very rapid rates of spread.

AIR OPERATIONS

Smoke may impact visibility in the morning and hamper air operations. Air should clear out late morning but may move back in in the early afternoon as smoke from the Happy Camp Complex filters in.

Safety Message

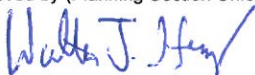
Think about the outflow winds from the forecast thunderstorms today. Although they can dramatically increase fire behavior that may not be the most prominent threat. The high wind speeds could also make snags and fire weakened trees a concern.

DIVISION ASSIGNMENT LIST		1. Branch I		2. Division/Group E			
3. Incident Name Beaver		4. Operational Period DAY OPERATIONS Date: 8/18/14 Time: 0600-2000					
5. Operations Personnel							
Operations Chief	Steve Burns/Kurt Lindstrand (t)		Division/Group Supervisor	Brett Loomis, Robert Vernachio (t)			
Branch Director	Mario Marquez, Mike Reed (t)		Air Support	Glenn Dietz			
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 Eldorado 1 (C-71)	Will Harris	8/21	21	N	DP 84 / 0700	1900	
HC1 Springville IHC	Joaquin Medna	8/27	20	N	DP 84 / 0700	1900	
HC1 Elk Mountain IHC (C-72)	Cheveyo Munk	8/20	19	N	DP 84 / 0700	1900	
S/T ENG 1685C	Peter Stephenson	8/27	27	N	DP 84 / 0700	1900	
ENG T3 CA-PNF 325 (E-244)	James Lico	8/29	5	N	DP 84 / 0700	1900	
ENG3 MNF 333 (E-353)	Stephanie Gleason	8/26	5	N	DP 84 / 0700	1900	
ENG6 Bohica Brothers 61 (E-335)	David Campbell	8/26	3	N	DP 84 / 0700	1900	
ENG6 Leeds Brush 151 (E-207)	Steven Lewis	8/21	2	N	DP 84 / 0700	1900	
WT2 Hurlimann (E-30)	Zane Palmerson	8/25	1	N	DP 84 / 0700	1900	
WT2 Darrah (E-51)	Wayne Williams	8/29	1	N	DP 84 / 0700	1900	
WT2 Cattlelack 713 (E-3)	David Patrick	8/29	1	N	DP 84 / 0700	1900	
WT2 Darrah Logging (E-29)	Daryl Birhe	8/29	1	N	DP 84 / 0700	1900	
READ (O-213)	Craig Wilson	8/22	1	N	DP 84 / 0700	1900	
READ (O-352)	Brady Dodd	8/31	1	N	DP 84 / 0700	1900	
FOBS (O-152) (Divisions E/J/K)	Pete Briant	8/20	1	N	DP 84 / 0700	1900	
FOBS (O-141) (Divisions E/J/K)	Steve Siebert	8/20	1	N	DP 84 / 0700	1900	
FEMP (O-47)	Matt Miller	8/22	1	N	DP 84 / 0700	1900	
FEMT (O-52)	Jared McElhannon	8/22	1	N	DP 84 / 0700	1900	
SOFR (O-134)	William Cirone	8/23	1	N	DP 84 / 0700	1900	
7. Control Operations							
<ul style="list-style-type: none"> Mop up 200 feet where safe to do so. Begin fireline repair. 							
8. Special Instructions							
<ul style="list-style-type: none"> Backhaul trash and excess equipment. Avoid cutting hazard trees that are blazed and painted as property line trees if possible. 							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 166.6125 TX 168.4000	NIFC C4	1 Tone 4 (136.5)	Alt. Command	RX 168.1750 TX 171.5250	BLACK T1	14 Tone 1 (110.9)
Tactical Division/Group	RX 166.7250N TX 166.7250N	NIFC T-5	6 Tone 4 (136.5)	Air to Ground	RX 165.4125 TX 165.4125	A/G CMD	12
				Air to Ground	RX 169.6375 TX 169.6375	A/G TAC	13
Prepared by (Resource Unit Leader)		Approved by (Planning Section Chief)			Date	Time	
L. Charbonnier		<i>Walter J. Hogg</i>			8/17/2014	20:40	

DIVISION ASSIGNMENT LIST		1. Branch I		2. Division/Group J			
3. Incident Name Beaver		4. Operational Period DAY OPERATIONS Date: 8/18/14 Time: 0600-2000					
5. Operations Personnel							
Operations Chief	Steve Burns/Kurt Lindstrand (t)		Division/Group Supervisor	Mark Patino (8/23)			
Branch Director	Mario Marquez, Mike Reed (t)		Air Support	Glenn Dietz			
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 MDS 2 (C-26)	Paul Shannon	8/19	20	N	DP 55 / 0700	1900	
HC2IA Intertribal #1 (C-84)	Jacob Wisehart	8/27	20	N	DP 55 / 0700	1900	
HC2 Delta #2 (C-44)	Zachary Jacobson	8/23	20	N	DP 55 / 0700	1900	
ST 3660C PNF (E-156)	Rich Simon / Rich Lucius (t)	8/19	27	N	DP 55 / 0700	1900	
WT2 Darrah (E-49)	Stan Cargo	8/23	1	N	DP 55 / 0700	1900	
WT2 Cattlelack (E-4)			1	N	DP 55 / 0700	1900	
FALM (O-104)	Ken Oysert	8/18	1	N	DP 55 / 0700	1900	
FALM (O-287)	Rick Mee	8/25	1	N	DP 55 / 0700	1900	
FALM (O-288)	Brian Vigle / Jason Ables	8/25	2	N	DP 55 / 0700	1900	
FELB (O-319)	James Rust	8/27	1	N	DP 55 / 0700	1900	
FEMP (O-310)	David Morrisey	8/19	1	N	DP 55 / 0700	1900	
FEMP (O-364)	Richard Bethel	8/30	1	N	DP 55 / 0700	1900	
SOFR (O-338)	Mike Alforque	8/26	1	N	DP 55 / 0700	1900	
7. Control Operations							
<ul style="list-style-type: none"> Mop up 200 feet where safe to do so. Begin fireline repair. 							
8. Special Instructions							
<ul style="list-style-type: none"> Backhaul trash and excess equipment. Avoid cutting hazard trees that are blazed and painted as property line trees if possible. HC2IA MDS #2 (C-26) Last shift – Demob on 8/19 and report to Redding. 							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 166.6125 TX 168.4000	NIFC C4	1 Tone 4 (136.5)	Alt. Command	RX 168.1750 TX 171.5250	BLACK T1	14 Tone 1 (110.9)
Tactical Division/Group	RX 167.1125N TX 167.1125N	FS R5 T5	10 Tone 4 (136.5)	Air to Ground	RX 165.4125 TX 165.4125	A/G CMD	12
				Air to Ground	RX 169.6375 TX 169.6375	A/G TAC	13
Prepared by (Resource Unit Leader) L. Charbonnier		Approved by (Planning Section Chief) <i>Walter J. Hays</i>			Date 8/17/2014	Time 21:18	

DIVISION ASSIGNMENT LIST		1. Branch I		2. Division/Group K / L			
3. Incident Name Beaver		4. Operational Period DAY OPERATIONS Date: 8/18/14 Time: 0600-2000					
5. Operations Personnel							
Operations Chief	Steve Burns/Kurt Lindstrand (t)		Division/Group Supervisor	Randy Jennings Todd Nightingale (t)			
Branch Director	Mario Marquez, Mike Reed (t)		Air Support	Glenn Dietz			
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 Kern Valley IHC (C-24)	Leif Mathiesen	8/19	23	N	DP 46 / 0700	1900	
HC1 American River (C-16)	Adam Leyba	8/18	20	N	DP 46 / 0700	1900	
HC1 Bear Divide IHC (C-31)	Brian Anderson	8/19	20	N	DP 46 / 0700	1900	
HC2 St. Michael (C-79)	Aloysius Otten	8/26	20	N	DP 46 / 0700	1900	
TF ENF1 (E-180)	Michael Loeffler / Stephen Clifford (t)	8/20	25	N	DP 46 / 0700	1900	
ENG3 PNF 930 (E-181)	Bob Travis	8/20	7	N	DP 46 / 0700	1900	
ENG3 NM 316 (E-9)	Donald Valdez	8/30	3	N	DP 46 / 0700	1900	
ENG6 Mt. Adam 322 (E-147)	Don Holter	9/1	3	N	DP 46 / 0700	1900	
ENG6 Mt. Adam 324 (E-148)	Ed Chico	8/29	3	N	DP 46 / 0700	1900	
ENG6 Fairview 8 (E-205)	Grover Allrer	8/21	3	N	DP 46 / 0700	1900	
ENG6 Timberline (E-337)	Dylan Howard	8/26	3	N	DP 46 / 0700	1900	
DOZ2 w/LOWB CLT (E-128)	Joe Lopez	8/19	1	N	DP 46 / 0700	1900	
DOZ2 w/LOWB CLT (E-127)	Brett Jones	8/18	1	N	DP 46 / 0700	1900	
Skidgen (E-138)	Scott Hadeen	8/19	1	N	DP 46 / 0700	1900	
WT2 Darrah (E-122)	Dave Kaundart	8/18	1	N	DP 46 / 0700	1900	
WT Cattaneo 9 (E-248)	Kelly Kennemore	8/21	1	N	DP 46 / 0700	1900	
TFLD (O-194)	Ed Willy	8/20	1	N	DP 46 / 0700	1900	
HEQB (O-68)	Stephen Williamson	8/18	1	N	DP 46 / 0700	1900	
FEMP (O-48)	Ben Signor	8/21	1	N	DP 46 / 0700	1900	
FEMT (O-51)	Kain Packwood	8/22	1	N	DP 46 / 0700	1900	
SOFR (O-135)	Shannon Bowman	8/19	1	N	DP 46 / 0700	1900	
7. Control Operations <ul style="list-style-type: none"> Construct direct fireline in Doggett Creek drainage. Hold and mop up existing fireline. 							
8. Special Instructions: <ul style="list-style-type: none"> Avoid cutting hazard trees that are blazed and painted as property line trees if possible. 							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 166.6125 TX 168.4000	NIFC C4	1 Tone 4 (136.5)	Alt. Command	RX 168.1750 TX 171.5250	BLACK T1	14 Tone 1 (110.9)
Tactical Division/Group	RX 166.7750 TX 166.7750	NIFC TAC 6	7 Tone 4 (136.5)	Air to Ground	RX 165.4125 TX 165.4125	A/G CMD	12
				Air to Ground	RX 169.6375 TX 169.6375	A/G TAC	13
Prepared by (Resource Unit Leader) Rita Mustatia		Approved by (Planning Section Chief) <i>Walter J. Hey</i>			Date 8/17/2014	Time 21:19	

DIVISION ASSIGNMENT LIST		1. Branch II		2. Division/Group A / W			
3. Incident Name Beaver		4. Operational Period DAY OPERATIONS Date: 08/18/2014 Time: 0600-2000					
5. Operations Personnel							
Operations Chief	Steve Burns / Kurt Lindstrand (t)		Division/Group Supervisor	Jesse Knox / Kevin Halleran (t)			
Branch Director	Jay Lusher		Air Support	Glenn Dietz			
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 New Jersey 1 (C-28)	Trevor Raynor	8/18	20	N	DP 90 / 0700	1900	
HC2 Mtn. Village (C-81)	Johnny Kokrine	8/27	20	N	DP 90 / 0700	1900	
ST 6611C (E-329)	Josh Richardson	8/26	26	N	DP 90 / 0700	1900	
WT1 Cattlelack 131 (E-284)	Eric Head	8/29	1	N	DP 90 / 0700	1900	
DOZ2 w/LOWB Bens (E-92)	Dwayne Haggatt	8/18	2	N	DP 90 / 0700	1900	
DOZ2 w/LOWB N Rivers (E-199)	Robert Bartneck	8/26	1	N	DP 90 / 0700	1900	
DOZ1 w/LOWB Bens (E-195)	Robert Burt	8/20	2	N	DP 90 / 0700	1900	
DOZ1 w/LOWB McCullough (E-132)	Clay Hicks	8/18	2	N	DP 90 / 0700	1900	
CHIP w/Truck (O-380 O-381)	John Morgan / Joseph Jones	8/30	2	N	DP 90 / 0700	1900	
HEQB (O-257)	James Ballard	8/27	1	N	DP 90 / 0700	1900	
HEQB (O-258)	Terrance Corely	8/27	1	N	DP 90 / 0700	1900	
TFLD (O-89)	Paul Varnedoe	8/19	1	N	DP 90 / 0700	1900	
FOBS (O-297)	Bob Hoard	8/27	1	N	DP 90 / 0700	1900	
FOBS (O-296)	Jeremy Kolaks (t)	8/27	1	N	DP 90 / 0700	1900	
READ (O-212)	Rick Mowery	8/21	1	N	DP 90 / 0700	1900	
FEMP (O-303)	Steven Gray	8/26	1	N	DP 90 / 0700	1900	
FEMT (O-226)	Tony Garcia	8/18	1	N	DP 90 / 0700	1900	
FEMT (O-365)	Keith Albrecht	8/23	1	N	DP 90 / 0700	1900	
SOF2 (O-302)	James Smith	8/26	1	N	DP 90 / 0700	1900	
7. Control Operations <ul style="list-style-type: none"> Hold and mop up existing lines 200' where safe to do so. 							
8. Special Instructions <ul style="list-style-type: none"> Backhaul trash and excess hose. Continue suppression repair. Avoid cutting hazard trees that are blazed as property line trees if possible. Be prepared for initial attack. NJ1 HC (C-28) Last shift – Demob on 8/19 and report to Redding. 							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 166.6125 TX 168.4000	CMD 4	1 Tone 4 (136.5)	Alt. Command	RX 168.1750 TX 171.5250	BLACK T1	14 Tone 1 (110.9)
Tactical Division/Group	RX 168.6000N TX 168.6000N	NIFC T-3	5 Tone 4 (136.5)	Air to Ground	RX 165.4125 TX 165.4125	A/G CMD	12
				Air to Ground	RX 169.6375 TX 169.6375	A/G TAC	13
Prepared by (Resource Unit Leader) Rita Mustatia		Approved by (Planning Section Chief) <i>Walter J. Fey</i>			Date 8/17/2014		Time 21:23

DIVISION ASSIGNMENT LIST			1. Branch II		2. Division/Group P		
3. Incident Name Beaver			4. Operational Period DAY OPERATIONS Date: 8/18/14 Time: 0600-2000				
5. Operations Personnel							
Operations Chief		Steve Burns / Kurt Lindstrand (t)			Division/Group Supervisor		Don Fregulia
Branch Director		Jay Lusher			Air Support		Glenn Dietz
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 Pioneer Peak (C-1)	Matt Jones	8/28	22	N	DP 24 / 0700	1900	
HC2IA Southern Plains (C-86)	Kerwin Williams	8/28	20	N	DP 24 / 0700	1900	
HC2IA ASI (C-3)	Jason Sare	8/30	20	N	DP 24 / 0700	1900	
HC2IA Yukon (C-14)	Lamuel Black	8/30	22	N	DP 24 / 0700	1900	
ENG6 Oasis 2 (E-145)	Pete Hawley	8/19	3	N	DP 24 / 0700	1900	
ENG6 Oasis 1 (E-146)	Kent Smithart	8/19	3	N	DP 24 / 0700	1900	
ENG6 BR225 (E-150)	Mark Brinneman	8/20	3	N	DP 24 / 0700	1900	
ENG6 CIF 671 (E-336)	Alexander Arguelle	8/26	4	N	DP 24 / 0700	1900	
WT2 Darrah (E-123)			1	N	DP 24 / 0700	1900	
CHIP Seb's Tree Service (E-379)	Jason Grampa	8/30	1	N	DP 24 / 0700	1900	
FEMP (O-293)	Tom O'Malley	8/25	1	N	DP 24 / 0700	1900	
FEMP (O-99)	Scott Hamilton	8/18	1	N	DP 24 / 0700	1900	
SOF2	Jamie Rittenhouse	8/23	1	N	DP 24 / 0700	1900	
SOF2	Shelby Charley	8/18	1	N	DP 24 / 0700	1900	
7. Control Operations							
<ul style="list-style-type: none"> Hold and mop up existing lines 200' where safe to do so. 							
8. Special Instructions							
<ul style="list-style-type: none"> Backhaul trash and excess hose. Continue suppression repair. Avoid cutting hazard trees that are blazed as property line trees if possible. Safety Officers Donahoe and Davis will coordinate logging operation traffic from the Branch Break to Drop Point 24 in Division "P" 							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 166.6125 TX 168.4000	CMD 4	1 Tone 4 (136.5)	Alt. Command	RX 168.1750 TX 171.5250	BLACK T1	14 Tone 1 (110.9)
Tactical Division/Group	RX 168.6000N TX 168.6000N	NIFC T-3	5 Tone 4 (136.5)	Air to Ground	RX 165.4125 TX 165.4125	A/G CMD	12
				Air to Ground	RX 169.6375 TX 169.6375	A/G TAC	13
Prepared by (Resource Unit Leader)		Approved by (Planning Section Chief)			Date		Time
Rita Mustatia					8/17/2014		21:38

DIVISION ASSIGNMENT LIST			1. Branch II		2. Division/Group Q / T		
3. Incident Name Beaver			4. Operational Period DAY OPERATIONS Date: 8/18/14 Time: 0600-2000				
5. Operations Personnel							
Operations Chief		Steve Burns / Kurt Lindstrand (t)			Division/Group Supervisor	Mark Vardanega, Heather Munn (t)	
Branch Director		Jay Lusher			Air Support	Glenn Dietz	
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 West Virginia 1 (C-27)	Tim Casto	8/18	20	N	DP 18 / 0700	1900	
HC2IA Arkansas AOICC (C-85)	Terry Beatty, R.L. Self (t)	8/28	20	N	DP 18 / 0700	1900	
ENG6 Santa Clara Br32 (E-206)	Gabe Runolfson	8/21	2	N	DP 18 / 0700	1900	
ENG3 PNF 16 (E-182)	Dustin Langston	8/20	5	N	DP 18 / 0700	1900	
WT2 Peters 2 (E-120)	Jesse Morton	8/20	1	N	DP 18 / 0700	1900	
SKG Let-er-buck (E-251)	Steve Lassen	8/21	1	N	DP 18 / 0700	1900	
EXC Carlson's Spider (E-378)	Curt Carlson	8/31	1	N	DP 18 / 0700	1900	
TFLD (O-164)	John Martinez	8/20	1	N	DP 18 / 0700	1900	
HEQB (O-259)	James Gregory	8/28	1	N	DP 18 / 0700	1900	
EXC N Rivers (E-372)	Bill Perry	8/29	1	N	DP 18 / 0700	1900	
FEMP (O-201)	Brian Jones	8/21	1	N	DP 18 / 0700	1900	
FEMP (O-245)	Orland Ramirez	8/25	1	N	DP 18 / 0700	1900	
SOFR (O-200)	Bruce MacDonald	8/18	1	N	DP 18 / 0700	1900	
7. Control Operations							
<ul style="list-style-type: none"> Hold and mop up existing lines 200' where safe to do so. 							
8. Special Instructions							
<ul style="list-style-type: none"> Backhaul trash and excess hose. Continue suppression repair. Avoid cutting hazard trees that are blazed as property line trees if possible. West VA 1 HC (C-27) last shift. Demob on 8/19 and report to Redding. 							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
CMD	RX 166.6125 TX 168.4000	CMD 4	1 Tone 4 (136.5)	Alt CMD	RX 168.1750 TX 171.5250	BLACK T1	14 Tone 1 (110.9)
Tactical Division/Group	RX 166.7250 TX 166.7250	NIFC TAC 5	6 Tone 4 (136.5)	Air to Ground	RX 165.4125 TX 165.4125	A/G CMD	12
				Air to Ground	RX 169.6375 TX 169.6375	A/G TAC	13
Prepared by (Resource Unit Leader) Rita Mustatia			Approved by (Planning Section Chief) <i>Walter J. Hyatt</i>			Date 8/17/2014	Time 21:20

DIVISION ASSIGNMENT LIST			1. Branch II		2. Division/Group U / V		
3. Incident Name Beaver			4. Operational Period DAY OPERATIONS Date: 8/18/14 Time: 0600-2000				
5. Operations Personnel							
Operations Chief		Steve Burns / Kurt Lindstrand (t)			Division/Group Supervisor	Byron Hart	
Branch Director		Jay Lusher			Air Support	Glenn Dietz	
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 UT-SWS-663 (E-203)		Paul Christensen	8/21	2	N	DP 8 / 0700	1900
ENG6 UT-SWS-664 (E-204)		Spencer Rollo	8/21	2	N	DP 8 / 0700	1900
WT2 Shasta Brown (E-48)		Mike Brown	8/29	1	N	DP 8 / 0700	1900
HEQB (O-177)		David Marbert	8/18	1	N	DP 8 / 0700	1900
HEQB (O-375)		Casey Lovell	8/31	1	N	DP 8 / 0700	1900
SOFR (O-139)		Kim Lemke	8/23	1	N	DP 8 / 0700	1900
FEMP (O-363)		Roeber Scotland	8/30	1	N	DP 8 / 0700	1900
FEMT (O-100)		Jeremy Bileaudeaux	8/18	1	N	DP 8 / 0700	1900
FEMP (O-312)		Adam Hacking	8/18	1	N	DP 8 / 0700	1900
7. Control Operations							
<ul style="list-style-type: none"> Hold and mop up existing completed lines. Mop up 200' where safe to do so. 							
8. Special Instructions							
<ul style="list-style-type: none"> Backhaul trash and excess hose. Begin fireline suppression repair. Avoid cutting hazard trees that are blazed as property line trees if possible. 							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 166.6125 TX 168.4000	NIFC C4	1 Tone 4 (136.5)	Alt. Command	RX 168.1750 TX 171.5250	BLACK T1	14 Tone 1 (110.9)
Tactical Division/Group	RX 167.1125N TX 167.1125N	FS R5 T5	10 Tone 4 (136.5)	Air to Ground	RX 165.4125 TX 165.4125	A/G CMD	12
				Air to Ground	RX 169.6375 TX 169.6375	A/G TAC	13
Prepared by (Resource Unit Leader)			Approved by (Planning Section Chief)			Date	Time
Rita Mustatia			<i>Walter J. Hepp</i>			8/17/2014	21:08

DIVISION ASSIGNMENT LIST		1. Branch		2. Division/Group Repair Group			
3. Incident Name Beaver		4. Operational Period DAY OPERATIONS Date: 8/18/14 Time: 0600-2000					
5. Operations Personnel							
Operations Chief		Steve Burns/ Kurt Lindstrand (t)		Division/Group Supervisor		Shawn Burt (8/24)	
Branch Director				Air Support		Glenn Dietz	
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
DOZ2 w/LOWB Striff (E-201)		Randy Striff	8/26	4	N	DP 54 / 0700	1800
DOZ2 w/LOWB Bens (E-91)		Anthony Arnold	8/19	1	N	DP 54 / 0700	1900
DOZ2 w/LOWB North State (E-133)		Kevin Son	8/19	3	N	DP 54 / 0700	1900
WT2 Cattlelack (E-124)		Bob Buck	8/26	2	N	DP 54 / 0700	1900
HEQB (O-59)		Fed Privett	8/18	1	N	DP 54 / 0700	1900
HEQB (O-67)		Andy Heisey (t)	8/19	1	N	DP 54 / 0700	1900
HEQB (O-62)		Derrick Miller (t)	8/18	1	N	DP 54 / 0700	1900
HEQB (O-60)		Jacob Royse	8/19	1	N	DP 54 / 0700	1900
HEQB (O-189)		Levy Rentz	8/18	1	N	DP 54 / 0700	1900
HEQB (O-292)		Lucas Birch	8/26	1	N	DP 54 / 0700	1900
HEQB (O-360)		Byron James Haire	8/31	1	N	DP 54 / 0700	1900
EXC Peters (E-373)		Mike Peters	8/29	1	N	DP 54 / 0700	1900
EXC w/LOWB Brown's(E-374)		Gary Baugh	8/30	1	N	DP 54 / 0700	1900
EXC Brown Const (E-375)		Joaquin Durazo	8/30	1	N	DP 54 / 0700	1900
7. Control Operations							
<ul style="list-style-type: none"> Support repair efforts in all divisions. 							
8. Special Instructions							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 166.6125 TX 168.4000	NIFC C4	1 Tone 4 (136.5)	Alt. Command	RX 168.1750 TX 171.5250	BLACK T1	14 Tone 1 (110.9)
Tactical Division/Group	RX 166.5500 TX 166.5500	FS R5 T4	9 Tone 4 (136.5)	Air to Ground	RX 165.4125 TX 165.4125	A/G CMD	12
				Air to Ground	RX 169.6375 TX 169.6375	A/G TAC	13
Prepared by (Resource Unit Leader) Rita Mustatia			Approved by (Planning Section Chief) <i>Walter J. Hagan</i>			Date 8/17/2014	Time 21:08

INCIDENT RADIO COMMUNICATIONS PLAN

Incident Name

BEAVER FIRE CA-KNF-005497

Date/Time Prepared

08/17/14 2000

Operational Period Date/Time

DAY SHIFT 08-18-14

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	NIFC CMD 4	CMD 4	ALL DIVISIONS	166.6125N		168.4000N	T4, 136.5	A	
2	NIFC CMD 11	CMD 11	ALL DIVISIONS	170.6875N		166.575N	T4, 136.5	A	
3	NIFC CMD 41	CMD 41	ALL DIVISIONS	169.3875N		166.6000N	T4, 136.5	A	
4	TACTICAL	NIFC T-1	DIVISION C	168.0500N		168.0500N	T4, 136.5	A	
5	TACTICAL	NIFC T-3	DIVISIONS AW & P	168.6000N		168.6000N	T4, 136.5	A	
6	TACTICAL	NIFC T-5	DIVISIONS E & Q/T	166.7250N		166.7250N	T4, 136.5	A	
7	TACTICAL	NIFC T-6	DIVISIONS K/L	166.7750N		166.7750N	T4, 136.5	A	
8	TACTICAL	NIFC T-7	AVAILABLE	168.2500N		168.2500N	T4, 136.5	A	
9	TACTICAL	FS R5 T4	REPAIR	166.5500N		166.5500N	T4, 136.5	A	
10	TACTICAL	FS R5 T5	DIVISIONS J & UV	167.1125N		167.1125N	T4, 136.5	A	
11	TACTICAL	FS R5 T6	AVAILABLE	168.2375N		168.2375N	T4, 136.5	A	
12	AIR TO GROUND	A/G CMD	ALL DIVISIONS	165.4125N		165.4125N		A	BEAVER AIR TO GROUND
13	No Longer Available	A/G TAC	NO ONE	169.6375N		169.6375N		A	NOT AUTHORIZED FOR USE
14	ALT COMMAND	BLACK T1	ALL DIVISIONS	168.1750N		171.5250N	T1, 110.9	A	USE IF NIFC COMMAND NETS FAIL
15	CALCORD	CALCORD	MED HELO CONTACT	156.0750N		156.0750N	T6, 156.7	A	
16	URGENT AIR CONTACT	AIRGUARD	ALL DIVISIONS	168.6250N		168.6250N	T1, 110.9	A	USE ONLY FOR URGENT AIRCRAFT CONTACT IF HAND PROGRAMMING USE TONE 1

Incident Location

Prepared by



Phil Shafer, COML NorCal IMT 1
Rick Cartoscelli, COML

INCIDENT RADIO COMMUNICATIONS PLAN

Incident Name

Initial Attack CA-KNF-005497

Date/Time Prepared

08/17/14 2000

Operational Period Date/Time

ANY 08-18-14

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	BLACK	BLK T1	INITIAL ATTACK	168.1750N		171.5250N	T1, 110.9	A	T1 MASE PK
2	BLACK	BLK T2	INITIAL ATTACK	168.1750N		171.5250N	T2, 123.0	A	T2 LAKE MT
3	BLACK	BLK T10	INITIAL ATTACK	168.1750N		171.5250N	T10, 107.2	A	T10 COLLINS BALDY
4	ORANGE	ORANGET2	INITIAL ATTACK	168.7750N		170.5750N	T2, 123.0	A	T2 LAKE MT
5	ORANGE	ORANGET4	INITIAL ATTACK	168.7750N		170.5750N	T4, 136.5	A	T4 UKONOM
6	ORANGE	ORANGE11	INITIAL ATTACK	168.7750N		170.5750N	T11, 114.8	A	T11 SLATER
7	TACTICAL	NIFC T 2	INITIAL ATTACK	168.2000N		168.2000N		A	
8	TACTICAL	R5 T 4	INITIAL ATTACK	166.5500N		166.5500N		A	
9	KNF AG P	KNF AG43	INITIAL ATTACK	167.6000N		167.6000N		A	
10	SISKIYOU LOCAL	SKULOCAL	INITIAL ATTACK	151.3250N		159.3600N	T1, 110.9	A	
11	SISKIYOU TAC1	SKU T 1	INITIAL ATTACK	151.1450N		151.1450N	T16, 192.8	A	
12	SISKIYOU A/G1	SKU AG 1	INITIAL ATTACK	151.2200N		151.2200N		A	
13	KNF FOR RPT	KNF RPT2	ALTERNATE COMMAND	164.1750N		164.9750N	T2, 123.0	A	USE IF NIFC COMMAND NETS FAIL
14	KNF FOR RPT	KNFRPT10	ALTERNATE COMMAND	164.1750N		164.9750N	T10, 107.2	A	USE IF NIFC COMMAND NETS FAIL
15	CALCORD	CALCORD	MED HELO CONTACT	156.0750N		156.0750N	T6, 156.7	A	
16	URGENT AIR CONTACT	AIRGUARD	ALL DIVISIONS	168.6250N		168.6250N	T1, 110.9	A	USE ONLY FOR URGENT AIRCRAFT CONTACT IF HAND PROGRAMMING USE TONE 1

Prepared by

Incident Location



Phil Shafer, COML NorCal IMT 1
Rick Cartoscelli, COML

BEAVER FIRE PHONE LIST

As of 08/17/2014

Incident Commander & Staff

	ICP NUMBERS	QUARRY NUMBERS	FAX
Incident Commander			
Deputy Incident Commander			
Safety/Comp			
Information	530-331-0737		
Liaison Officer			
Operations			
Ops Chief	530-496-1506		
Air Ops.	530-496-1523		
Helibase			
Planning			
Plans Chief	530-496-1523		
Resource / Situation Unit	530-496-1519		
Documentation / Check In	530-496-1520		530-496-1505
Demob	530-496-1504		530-496-1505
IMET			
Fire Behavior Analyst			
Computer Techs			
F/Ban			
Training Specialist	530-496-1525		
Logistics			
Logistics Chief	530-496-1521		530-496-1508
Supply / R & D	530-496-1538	530-496-1537	
Ordering	530-496-1507 / 1508 /1522		530-496-1508
Facilities	530-496-1512	530-496-1531	
Ground Support / Repair	530- 496-1529	530-496-1528	
Communications	530-496-1502		
Medical Unit	530-496-1527		
Security	307-399-7316		
Food Unit		530-496-1531	
Finance			
Finance \$ection	530-496-1517	530-496-1526	
Finance \$ection			
HRSP	530-496-1540		

AIR OPERATIONS SUMMARY

1. INCIDENT NAME: Beaver CA-KNF-5497	2. OPS PERIOD DATE: 8/18/2014	START TIME: 0800	END TIME: 2100	SUNRISE: 0622	SUNSET: 2005
3. REMARKS (Safety Notes, Hazards, Air Operations, Special Equipment, etc.): Watch for wires in river canyons. Beware of rapidly changing VFR conditions due to smoke. Avoid dipping at the confluence of the Klamath river and Horse creek below bridge. Practice good communication and airspace deconfliction when operating near fence or other incidents.					
4. READY ALERT AIRCRAFT MEDEVAC: H-408KC (Scott Valley) Guard-826 (Weed) I.A.: H-610WW, H-7HE					
5. TFR #: 4/4519 42°00.000' N x 123°39.900' W 42°00.000' N x 122°41.500' W 41°48.000' N x 122°41.500' W 41°36.150' N x 123°00.000' W 41°36.150' N x 123°31.616' W Ceiling: 10,000' MSL					

6. PERSONNEL		NAME	PHONE #	7. FREQUENCIES		AM	FM	8. FIXED-WING- Type/ Make-Model/ N#/ Base	
AOBD		TBA		AIR/ AIR TFR	119.625			AIRTANKERS-	Ordered by ATGS
ASGS		Glenn Dietz	530-227-0017	AIR/ AIR RW	126.5750			LEAD PLANES-	Ordered by ATGS
ASGS		Curtis Coots	530-524-5818	AIR/ AIR RW- FF			162.2250	AA-85L	Beaver
ATGS (T)				Air to Ground			165.4125	AA-05 KNF/Relief	AA-6PJ July Complex
HLCO				COMMAND	rx	See comm		AA-17 KNF/Relief	AA-112 July Complex
HEB2		Mike Yearwood	530-375-7071		tx	Plan		Yreka ECC Aircraft Dispatcher 530-841-4600	
HEB2(T)				DECK			163.1000	OTHER FW AIRCRAFT-	
Hilt Helibase		41°59.793' N x 122°37.437' W		TOLC			163.1000		
Air Ops (ICP)		530-496-1523							

9. HELICOPTERS (Use Additional Sheets as Necessary)

FAA N#	T	Y	MAKE/ MODEL	BASE	AVAIL	START	REMARKS	FAA N#	T	Y	MAKE/ MODEL	BASE	AVAIL	START	REMARKS
137BH	1		S70 Firehawk	Hilt	0800						Other Equipment Assigned				
610WW	2		Bell 210	Hilt	0800			E-358			Water Tender	Hilt			
N7HE	3		Astar B3	Hilt	0800			E-356			Comm Trailer	Hilt			
												Dry Lake Site			North of DP-50
								S-92			Heliwell	Heliwell			
								E-267	1		Water Tender	Heliwell			
								E-269	1		Water Tender	Heliwell			
								E-357			Water Tender	Heliwell			

10. TASK/ MISSION/ ASSIGNMENT (Type/ function includes: Air Tactical, Retardant, Recon, Personnel Transport, Bucket Operations, SAR, etc.)

TYPE/FUNCTION	NAME OF PERSONNEL OR CARGO (If applicable) or instructions for tactical aircraft	MISSION START	FLY FROM	FLY TO
Water Dropping		As Needed		
Recon		As Needed		
Airspace Coordination	For aircraft traffic within two miles of, or intent to cross, TFR fence make notification on the assigned TFR air to air AM Frequency.			
		TFR Fence:	123°06.000' W	

MEDICAL PLAN (ICS 206 WF)

1. Incident/Project Name	2. Operational Period
Beaver	Date/Time: 08/18/2014 – Day Shift

3. Ambulance Services			
Name	Location	Phone & EMS Frequency	Advanced Life Support (ALS) Yes No
Happy Camp Medic 21	Division P at DP-24	NIFC C4	
Hoopa Medic 83	Klamath River Community	NIFC C4	X

4. Air Ambulance Services		
Name	Phone	Type of Aircraft & Capability
Mercy Flights	(530) 842-3515	BO-105, ALS Night Ops
REACH Helicopter	(530) 842-3515	Bell 407, ALS
PHI Redding	(530) 842-3515	EC-135, ALS
CHP	(530) 842-3515	Hoist Capabilities
H-408, Kern Co.	(530) 842-3515	Bell UH1H, 24 hr ALS, Night Ops, Hoist Capabilities

5. Hospitals								
Name & Level	GPS Datum – WGS 84 Degrees Decimal Minutes		Travel Time		Phone	Helipad		Address
			Air	Gnd		Yes	No	
Fairchild Medical Center Level 4 Trauma Center	Lat: N41 43.198	W122 38.76	15 min.	30 min.	(530) 841-6292	X		444 Bruce St. Yreka, CA 96097
Mercy Medical Center Mt. Shasta Level 3 Trauma Center	Lat: N41 15.48	W122 16.15	45 min.	1 hr.	(530) 926-6111	X		914 Pine St. Mt. Shasta, CA 96067
Rogue Valley Medical Center Level 3 Trauma Center	Lat: N42 19.08	W122 49.91	15 min.	55 min.	(541) 789-7100	X		2825 Barnett Rd, Medford, OR 97504
U.C. Davis Medical Center Level 1 Trauma/Burn Center	Lat: N38 33.14	W121 27.26	1 hr. 45 min.	4 hr. 45 min.	(916) 734-2011	X		2315 Stockton Blvd. Sacramento, CA

6. Division / Crew Pre-plan Update and discuss with assigned resources daily	
Crew EMTs & Equipment	
Fireline EMTs & Location Adv. Life Support?	
Air Hoist site: Lat: / Long:	
Helispot: Lat: / Long:	
Alternate no-fly plan:	

7. Remote Aid Stations									
Frontline Medical Quarry Base Camp N41 49.39 W122 58.34	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Point of Contact:</td> <td style="padding: 2px;">Tim Irwin, Landline (530) 496-1536 or Cell (928) 239-0153</td> </tr> <tr> <td style="padding: 2px;">EMS Responders & Capability:</td> <td style="padding: 2px;">Advanced Life Support / Flight Medic</td> </tr> <tr> <td style="padding: 2px;">Equipment Available on Site:</td> <td style="padding: 2px;">Medical Supplies</td> </tr> <tr> <td style="padding: 2px;">Ambulance ETA :</td> <td style="padding: 2px;">Air – 20 min. Ground – 60 min.</td> </tr> </table>	Point of Contact:	Tim Irwin, Landline (530) 496-1536 or Cell (928) 239-0153	EMS Responders & Capability:	Advanced Life Support / Flight Medic	Equipment Available on Site:	Medical Supplies	Ambulance ETA :	Air – 20 min. Ground – 60 min.
Point of Contact:	Tim Irwin, Landline (530) 496-1536 or Cell (928) 239-0153								
EMS Responders & Capability:	Advanced Life Support / Flight Medic								
Equipment Available on Site:	Medical Supplies								
Ambulance ETA :	Air – 20 min. Ground – 60 min.								
Medical Unit Incident Command Post N41 49.20 W122 58.09	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Point of Contact:</td> <td style="padding: 2px;">MEDL(t) Ryan Reginato, Cell (530) 925-1309</td> </tr> <tr> <td style="padding: 2px;">EMS Responders & Capability:</td> <td style="padding: 2px;">Basic Life Support</td> </tr> <tr> <td style="padding: 2px;">Equipment Available on Site:</td> <td style="padding: 2px;">Medical Supplies</td> </tr> <tr> <td style="padding: 2px;">Ambulance ETA :</td> <td style="padding: 2px;">Air – 20 min. Ground – 60 min.</td> </tr> </table>	Point of Contact:	MEDL(t) Ryan Reginato, Cell (530) 925-1309	EMS Responders & Capability:	Basic Life Support	Equipment Available on Site:	Medical Supplies	Ambulance ETA :	Air – 20 min. Ground – 60 min.
Point of Contact:	MEDL(t) Ryan Reginato, Cell (530) 925-1309								
EMS Responders & Capability:	Basic Life Support								
Equipment Available on Site:	Medical Supplies								
Ambulance ETA :	Air – 20 min. Ground – 60 min.								

8. Prepared By (Medical Unit Leader)	9. Date/Time	10. Reviewed By (Safety Officer)	11. Date/Time
Ryan Reginato MEDL(t) 	08/17/14 2000	Michele Tanzi 	08/17/14 2000

MEDICAL PLAN (ICS 206 WF)

Medical Incident Report

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

1. CONTACT COMMUNICATIONS, DECLARE: "MEDICAL EMERGENCY" OR "NON-EMERGENCY MEDICAL TRANSPORT"

Ex: "Communications, Div. Alpha. Stand-by for a medical emergency on Div. Alpha" (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 pt. This is only a brief, initial assessment. Provide additional pt. info after completing this report.*

- **Number of Patients:** _____ - **Male / Female:** _____ - **Age:** _____ - **Weight:** _____
- **Conscious?** YES NO = MEDEVAC! - **Breathing?** YES NO = MEDEVAC!
- **Mechanism of Injury** *What caused the injury?* _____
- **Location, 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"/> URGENT-RED <i>Life threatening injury or illness.</i> <i>Ex: Unconscious, difficulty breathing, bleeding severely, 2° - 3° burns more than 4 palm sizes, heat stroke, disoriented.</i>	Ambulance or MEDEVAC helicopter. Evacuation need is IMMEDIATE.
<input type="checkbox"/> PRIORITY-YELLOW <i>Serious Injury or illness.</i> <i>Ex: Significant trauma, not able to walk, 2° - 3° burns not more than 1-2 palm sizes.</i>	Ambulance or consider air transport if at remote location. Evacuation may be DELAYED.
<input type="checkbox"/> ROUTINE-GREEN <i>Not a life threatening injury or illness. Ex: Sprains, strains, minor heat-related illness.</i>	Non-Emergency. Evacuation considered Routine of Convenience.

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:

- Paramedic/EMT(s) SKED/Backboard/C-Collar Crew(s) Burn Supplies Oxygen
 Trauma Bag Medication(s) IV/Fluid(s) Cardiac Monitor/AED
 Other (i.e. splints, rope rescue, wheeled litter)

7. COMMUNICATIONS:

- Run Medical Emergency on COMMAND - Coordinate with air ambulance on CALCORD Tone 6

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: *If primary options fail, what actions can be implemented in conjunction with primary evacuation method? Be thinking ahead...*

REMEMBER: -Confirm ETA's of resources ordered -Act according to your level of training
 - If air or ground ambulance is DELAYED: Package and transport patient to rendezvous with incoming Ambulance.
 Re-route EMS helicopter to rendezvous point as appropriate.

INCIDENT RISK ANALYSIS
Beaver Fire
(ICS 215A) August 18th, 2014 Day Shift 0600-2000

DIV	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS / WARNINGS / REMEDIES
ALL	Medical Emergencies	<ul style="list-style-type: none"> • Review and understand Medical Plan in IAP. • Base all operational activities on these three questions <ul style="list-style-type: none"> ○ What are we going to do if someone gets hurt? ○ How will we get them out of here? ○ How long will it take to get them to a hospital? • If the answers are insufficient, stop, reassess and consider alternate strategies and tactics! • Review and brief your crews using page 2 in the IRPG.
ALL	Communications	<ul style="list-style-type: none"> • Ensure you have received the most current communications plan, and your radios have been cloned to it before heading out to your work area. • TEST your radio before you leave camp to ensure you have comms, and then TEST again when you arrive at your work area. • Use human repeaters in areas with sketchy comms. • Refer to the 5 communication responsibilities listed on page ix in the 2014 IRPG
ALL	Driving Hazards	<ul style="list-style-type: none"> • Wildlife is abundant in both the camp and fire area. • Roads within the burned areas have MANY hazards. Scout prior to committing travel through these areas. Mitigate if capable OR close road entirely until hazards have been mitigated. • Washboard conditions are common on most of the native surface roads. Maintain adequate following distances. Reduce speed in Developed Areas. Be watchful of local traffic. • Drive defensively! Expect the unexpected around every curve. • Drive with your headlights on. Look before backing and use backers. • Maintain driving situational awareness. • SEAT BELTS ON...LIGHTS ON...BEFORE wheels turn! • Reduce driving speeds to allow for reaction time lag. • On dusty/smoky roads, don't follow too closely behind traffic. Allow time for dust/smoke to clear. • Establish one-way traffic or coordinate traffic flow if necessary. • Don't drive when fatigued. Adhere to agency driving regulations and guidelines. • Pedestrians could be anywhere, Keep speeds down
ALL	Fire Behavior	<ul style="list-style-type: none"> • High rates of spread (ROS) when aligned with wind & topography. • Ensure a solid anchor point and flank. • Use experienced LOOKOUTS under these conditions. • Monitor weather conditions. Be aware of visual indicators (clouds, WX obs., cold front passage) • Maintain adequate escape routes and safety zones. Set trigger points when appropriate. Communicate any changes. • Spotting Potential still exists...."Eyes to the green"
ALL	Aircraft Operations	<ul style="list-style-type: none"> • Ensure resources are clear of "Target Area" during bucket or retardant use. • Use air-to-ground frequency to communicate with aircraft. • Use clear, concise statements when directing aircraft. Use clock directions from pilot's perspective and mirror flashes. • Consider risk vs gain • Ensure use of trained personnel when involved with longline operations. • Keep non-essential personnel away from dip sites (natural and/or man made) • Ensure personnel receive a passenger briefing prior to flight.
ALL	Heavy Equipment/Dozers	<ul style="list-style-type: none"> • Stay 100' in front and 50' behind the equipment. Maintain safe working distances. • If working in Timber increase these distances to 2.5 times the canopy height. • Make eye contact with operator and ensure all implements have been grounded before approaching equipment. • Only the operator is authorized on the equipment. • Avoid working below equipment • Operators utilize appropriate PPE and equipment safety mechanisms. • Utilize observer or spotter. • Ensure the use of communication with operator (radio, hand signals). • Refer to and brief your crews using page 80 in the 2014 IRPG for further precautions for working around heavy equipment.
ALL	Mop Up	<ul style="list-style-type: none"> • Conduct thorough briefing for all personnel (inside the rear cover of IRPG) • Use all required PPE, including eye protection • Maintain proper spacing and overhead clearance • Be alert for danger trees, stump holes, and ash pits • Minimize exposure to smoke and rotate personnel into clean air when practical • Evaluate unburned islands and increase situational awareness

INCIDENT RISK ANALYSIS
Beaver Fire
(ICS 215A) August 18th, 2014 Day Shift 0600-2000

ALL	Danger Trees & Procedural Felling Operations	<ul style="list-style-type: none"> • Identify, communicate and flag all high-risk DANGER TREES. • Keep personnel out of the high-risk areas until the hazards have been removed • Establish Lookouts when engaged in falling operations. • Scout work area for overhead hazards to ensure safe work areas. • Mitigate using qualified personnel only. • Re-assess the need to eliminate the hazard by felling if it is feasible to keep personnel away • If unable to mitigate hazard, Flag Off area, communicate the location & keep personnel away. • Review and brief your crews using pages 22, 23 & 79 in 2014 IRPG 	
ALL	Hydration & Heat Illness	<ul style="list-style-type: none"> • Pre-hydrate, Re-hydrate! Dehydration is preventable.....Drink a minimum of 250ml/hour; (¼ of canteen) • Drink water & Electrolyte drinks before, during, and after shifts. (2 waters to 1 sports drink). • Do NOT mix with water or dilute electrolyte drink. It must be consumed as is for the body to absorb properly. • Low volumes of dark, concentrated urine or painful urination indicate a serious need for rehydration, & medical attention. • Ensure your crews take an adequate water/electrolyte supply out to assignment and order more as needed. Take frequent snack breaks to keep blood sugar levels up. • Pace work to avoid heat injuries • Heat exhaustion is characterized by: Weakness, Extreme Fatigue, Nausea, Dizziness & Headaches, clammy skin, persistent muscle cramps, decreased urine output. <ul style="list-style-type: none"> ○ Cool patient as quickly as possible! ○ Move patient to a cooler location and provide cold water and sports drink. ○ Actively reduce core temperature through evaporation by fanning patient. ○ Cover head and neck with wet cloth, increase air movement. ○ Heat exhaustion is characterized by: Weakness, Extreme Fatigue, Nausea, Dizziness Headaches, clammy skin, persistent muscle cramps, decreased urine output. ○ Remove Patient from fireline and seek medical attention. • Mental confusion may develop. This is a serious trigger point for the potential onset of Heat Stroke. • Refer to Medical Plan for additional EMS care and Evacuation 	
ALL	Biting, Stinging Insects (Rattle Snakes, Scorpions, Bees, Mosquitoes, Ticks, etc)	<ul style="list-style-type: none"> • If allergic to bee stings, let your DIVS & EMT's know. • Leave the snakes alone! • Shake out boots and or sleeping bags prior to use • Use bug spray to minimize mosquito bites. • Check yourself daily for tick bites. 	
ALL	Complacency and Fatigue	<ul style="list-style-type: none"> • Don't let your operations fall into the "routine" category. • Maintain situational awareness in all activities. • Be alert for signs of fatigue and take breaks as necessary • Maintain 2:1 work/rest ratio • Monitor incoming resources for level of fatigue 	
INCIDENT NAME Beaver Fire ICS 215a		DATE PREPARED: <p style="text-align: center;">August 17, 2014</p>	OPERATIONAL PERIOD Day Shift 8/18/2014, 0600-2000 Prepared by: Tanzi, Barnhart, Kafka
		TIME PREPARED: 2000 HOURS	



Today's discussion is from the Environmental Factors Category.

Felling Operations Situational Awareness

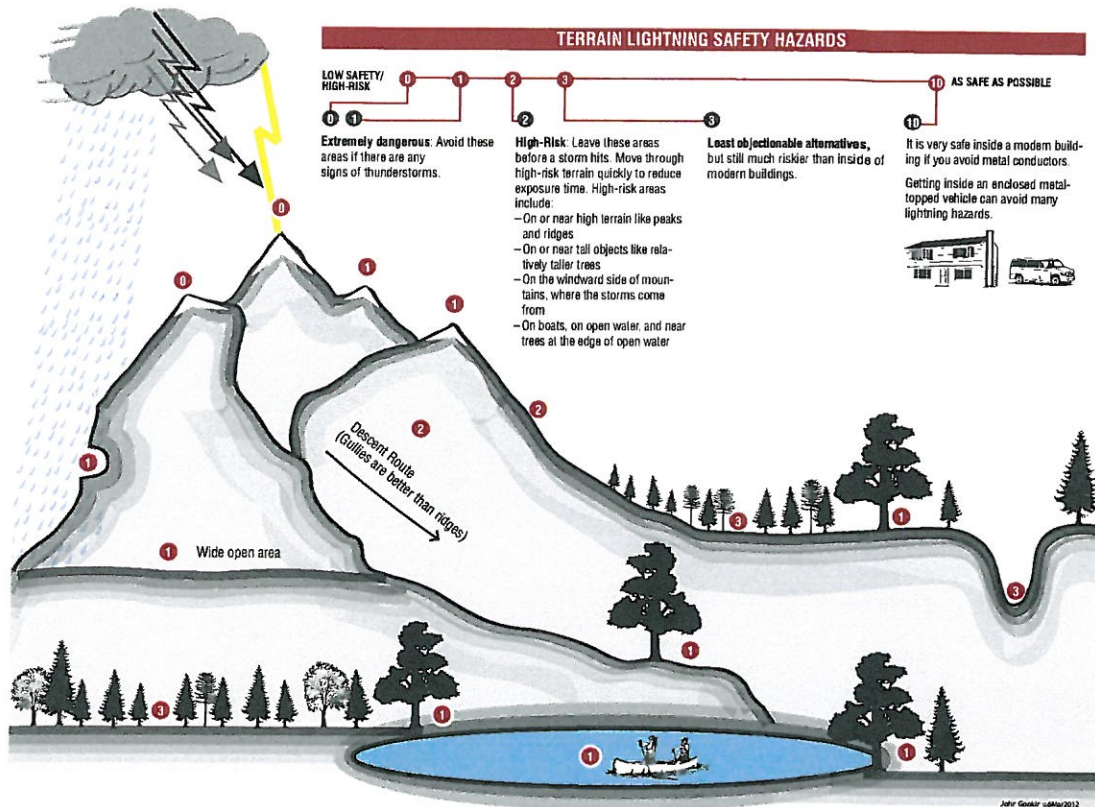
Many potential hazards and situational concerns exist while felling operations are being conducted. These hazards and situational concerns are not solely limited to the actual faller but also to those assisting or in the general area. The following are examples of specific items to consider when working on or in the vicinity of felling operations. Additional items may be included.

- Is the faller and swamper aware of my position and the position of all others in the vicinity?
- Have escape routes been discussed and located?
- Conduct a "size-up" of the tree being felled and consider:
 - The height and distance that would be required to ensure no possibility of being hit as the tree falls
 - What are the possibilities that something may fall from the tree or break?
 - Is the tree sound and healthy, dead or rotten?
 - Is the tree leaning or heavily limbed on one side?
- Are there weather conditions such as wind that would effect how the tree falls
- Conduct a survey of the surrounding area and consider
 - -What are the factors that would impede my escape?(terrain, vegetation, wetness, slope)
 - Is there a possibility that the tree will roll once it hits the ground?
- Consider the possible actions that may occur as the tree falls
 - Are there other trees or obstacles that may impede the tree falling?.
 - Is there the potential for the tree to break off pieces and propel them in various directions?
- Maintain visual contact with the tree being felled.
- Do not approach until the tree has stopped moving and the all clear is given.

Always be aware of your surroundings when felling operations are being conducted and expect the unexpected.

BACKCOUNTRY LIGHTNING RISK MANAGEMENT

No place outdoors is safe from lightning. Lightning is an objective hazard. Your behavior can reduce the risk of that hazard harming you.



REDUCING LIGHTNING RISK IN THE BACKCOUNTRY

Backcountry settings are at least a 30-minute walk from the nearest vehicles or modern buildings, where you can easily find safe shelter. There are four actions that can reduce your lightning risk in the backcountry, but none of them can make you as safe as getting in a modern building or a metal-topped vehicle. These behaviors are listed in order, and each is roughly twice as important as the next.

1. TIME YOUR VISITS TO HIGH-RISK AREAS WITH LOCAL WEATHER PATTERNS.

Timing activities with safe weather requires knowledge of both typical and recent local weather patterns. There is no such thing as a *surprise* or *break* storm. You must set turnaround times that will get you off of exposed terrain before storms arrive. You need to observe the changing weather and discuss its status with your group. If you have logistical delays, you may need to change your plan rather than summiting a peak or crossing open ground during a thunderstorm. Begin your turnaround if you hear thunder (which means lightning is less than 10 miles away).

2. FIND SAFER TERRAIN IF YOU HEAR THUNDER.

safer terrain in the backcountry can decrease your chances of being struck. Lightning tends to hit high points and the surrounding terrain. Avoid peaks, ridges, and significantly higher ground during an electrical storm. If you have a choice, descend a mountain on the side that has no clouds over it, since strikes tend to be less frequent on that side until the clouds move over it. Once you get down to low, rolling terrain, strikes are so random you shouldn't worry about terrain as much. Move to safer terrain as soon as you hear thunder, not when the storm is upon you.

Select tent sites that may reduce your chances of being struck or affected by ground current. If you are in a tent in "safer terrain" and you hear thunder, you at least need to be in the lightning position. Lying flat increases the risk of injury by ground current.

If your tent is in a more dangerous location, such as on a ridge, in a broad open area, or near a tall tree, you must exit the tent and get to safer terrain before the storm arrives, and stay there until it has passed.

In gently rolling hills, lower flat areas are not safer than the higher flat areas because none of the gentle terrain attracts leaders. Strikes are random in this terrain. Look for a dry ravine or other significant depression to reduce risk.

The flash-bang ranging system measures how far away a thunderstorm is, but sometimes it is impossible to tell which flash is associated with which bang. The flash of light travels fast enough that it is virtually instantaneous. The sound travels a mile every five seconds (1km/3 sec) so ideally you just count the number of seconds between the obvious flash and the obvious bang, and divide by five to determine how many miles away the storm is. Divide the time by three to see how many kilometers distant the storm is. Do not stake your life on the reliability of this ranging system.

3. AVOID TREES AND LONG CONDUCTORS ONCE LIGHTNING GETS CLOSE.

Wide open ground offers high exposure to lightning. Avoid trees and bushes that rise above others, since the highest objects tend to generate upward leaders. Your best bet is to look for an obvious ravine or depression before the storm hits, then spread out your group at 20 foot (7m) intervals to reduce the risk of multiple injuries. Assume the lightning position.

Caves (Fig. 3) should avoid cave entrances during thunderstorms. Small overhangs can allow arcs to cross the gap. Natural caves that go far into the ground can be struck, either via the entrance or through the ground. People have been shocked standing in water half a mile inside caves. If you are caving near an entrance during electrical activity, don't stand in water, avoid metal conductors like ladders, cables, and railings, and avoid bridging the gap between ceiling and floor.

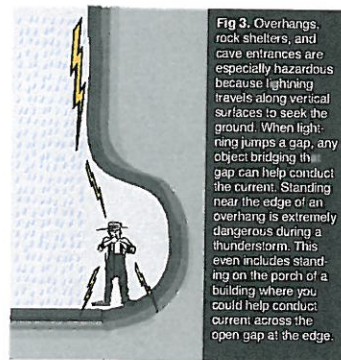


Fig. 3. Overhangs, rock shelters, and cave entrances are especially hazardous because lightning travels along vertical surfaces to seek the ground. When lightning jumps a gap, any object bridging the gap can help conduct the current. Standing near the edge of an overhang is extremely dangerous during a thunderstorm. This even includes standing on the porch of a building where you could help conduct current across the open gap at the edge.

Boaters need to start getting off the water long before a storm arrives. Avoid tall trees near the edge of the water.

4. GET IN THE LIGHTNING POSITION IF LIGHTNING IS STRIKING NEARBY AND YOU CAN'T GET TO SAFER TERRAIN.

The lightning position (Fig. 4) is for waiting out storms in stationary situations when it is impractical to move to a safer location. It is important to reduce your overall footprint on the ground (Fig. 1).



Fig. 4 Lightning positions: Put your feet together to significantly reduce the effects of ground current. If you have a foam pad to stand on or a pack to sit on, get on it. Crouch or sit to slightly reduce the effects of side flash and upward leaders.



Human Resource Message

As the Human Resource Specialists assigned to this incident, our role is to help facilitate a positive work environment, which for us begins with "Hello"!

A simple "Hello" goes a long way toward building relationships. When we remain silent among strangers, we build walls that make it harder to recognize our similarities and learn about our differences.

We are also a contact for informal resolution of issues and concerns. We are here to help you with questions or concerns about any aspect of your work environment.

Come see us any time you have questions, concerns, or just want to chat.

Diane Simpson
HRSP

Shawn Holden
HRSP (†)

530-496-1540



SOCIAL MEDIA

Northern California IMT 1 reminds all personal to think before you post those photos and/or videos taken on this incident. Remember that all of our Agencies have policies in place regarding the taking and/or posting of photos or videos on any media site such as Facebook, YouTube, Flickr, etc. Such activities can easily result in serious, unintended consequences.

If you have photos or video that you would like to share, please bring them by the PIO desk located at the ICP



FOLLOW US ON

FACEBOOK & TWITTER



Nor Cal #1

Expectations for Operational Periods and Shift Length

- The expectations of the I.C. and the team are that all operational resources will proceed directly to their shift assignments at the conclusion of the operational briefing / division break-out. Individuals attending the briefing should attend dressed fire-ready (nomex pants and boots).
- ICS 204 Division Assignment Lists will display anticipated shift duration. The assigned Division Supervisor has the authority to modify these time frames as the situation dictates.
- A minimum of 1 meal break should be taken each day when the fire situation permits. When meals are not recorded, rationale is needed on the CTR. Non fireline assigned resources should plan for a 30 minute break every 6 hours when the situation permits. Command and General Staff will manage workloads to allow for breaks when appropriate.
- Individuals shall only drive if they have had at least 8 consecutive hours off duty before beginning a shift. *Example: if it becomes essential to work until 2300 hours, the individual should not return to duty before 0700 the following day.* Exceptions to this policy should only be to accomplish immediate and critical suppression objectives or critical firefighter / public safety missions as approved by the I.C.
- The Incident Management Organization is committed to a “zero tolerance” policy against inappropriate behavior during incident operations. We expect an attitude of mutual respect for all incident personnel and the public we serve. Any form of harassment, discriminatory practices, or disrespectful behavior will not be tolerated and will be dealt with appropriately. Illegal drug use or other illegal activities will not be tolerated and will be turned over to local law enforcement authorities. Alcohol is strictly prohibited from the fire camp and all other incident locations. Violation of these standards of conduct can result in prompt dismissal from the incident. Individuals who are aware of any inappropriate behavior of incident personnel should tell their supervisor or contact the Human Resource Specialist.

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.

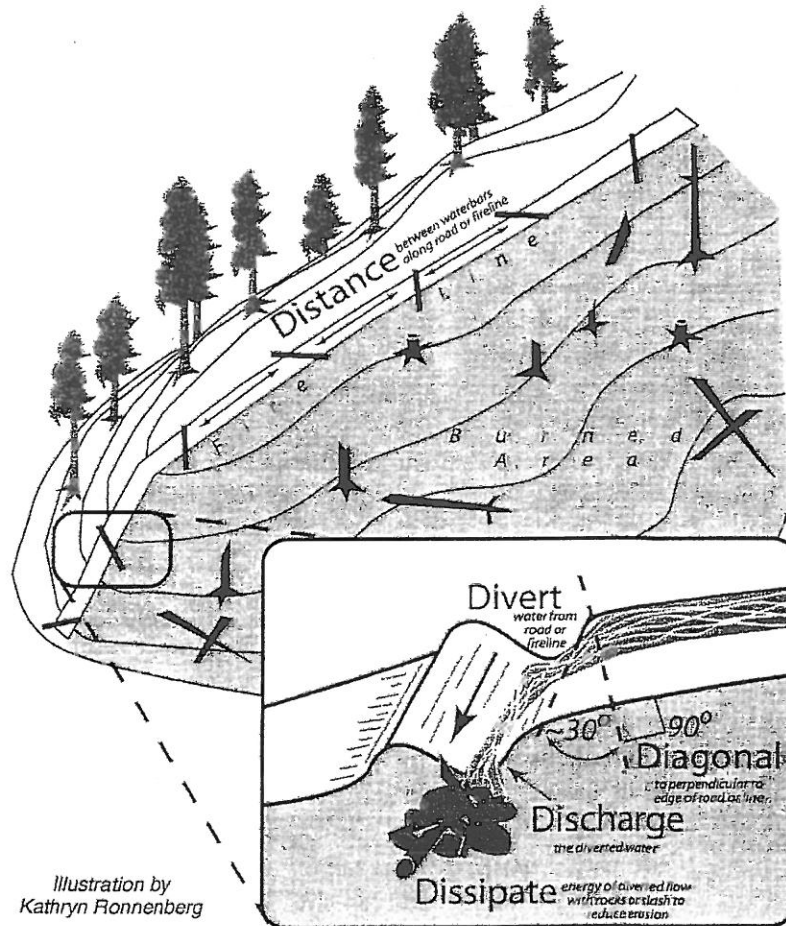


Illustration by
Kathryn Ronnenberg

Date & Time Order was placed:		Order #	Location & Time for Delivery (DIV,LZ,DP,Lat Long)		Mode of delivery
		(DIVS+#)			(Driven/Helo/DIVS to Pick up)
			Lat:		
			Long:		
Order received in Communications by (Name):					Time:
Order shipped to line by (Name): (Send this sheet to the line with the order)					Time:
#	Item				
1	1,000 Foot Hose Lay includes the following: Amount _____				
	10, 100'x1½" Rolls Hose; 10, 100'x1" Rolls Hose; 10, 1½" Gated Wyes; 10, 1½" to 1" reducers; 10, 1" nozzles				
2	2,000 Foot Hose Lay includes the following: Amount _____				
	20, 100'x1½" Rolls Hose; 20, 100'x1" Rolls Hose; 20, 1½" Gated Wyes; 20, 1½" to 1" reducers; 20, 1" nozzles				
3	3,000 Foot Hose Lay includes the following: Amount _____				
	30, 100'x1½" Rolls Hose; 30, 100'x1" Rolls Hose; 30, 1½" Gated Wyes; 30, 1½" to 1" reducers; 30, 1" nozzles				
#	Item	Amount	#	Item	Amount
4	Hose (50') garden, 3/4"		30	Gas Unleaded (Gallons)	
5	Hose (100'), 1"		31	Oil 2 cycle, (Pints)	
6	Hose (100'), 1½"		32	Bar Oil (Qts)	
7	Nozzle, Garden, 3/4"		33	Drip Torch ea	
8	Nozzle, Forester, 1"		34	Drip torch mix 3.5:1.5 (gallon)	
9	Nozzle, KK Type, 1"		35	Fusees (Boxes or cases)???	
10	Nozzle, KK Type, 1½"		36	Flare Gun Rounds (12/BX)	
11	Wye, Gated, 3/4"		37	Cartridge #6 purple (box)	
12	Wye, Gated, 1"		38	Batteries "AA" PKGs(24/PKG)/BX	
13	Wye, Gated, 1½"		39	Ribbon, Flagging (Specify Color)*	
14	Inline-Tee, 1x1x3/4"		40	Water, Cubies	
15	Inline-Tee, 1x1x1"		41	Water, Bottled, Cases	
16	Inline-Tee (1½" X 1")		42	Gatorade	
17	Reducer, 1" X 3/4"		43	MRE's (12/BX)	
18	Reducer, 1½" X 1"		44	Heavy Mill Plastic	
19	Increaser, 3/4" X 1"		45	Washcloth, waterless, cleansing	
20	Increaser, 1" X 1½"		46	Wrap, Structure 54"x300'	
21	Foam 5 gal		47	Sprinkler Kit	
22	Foam 4 Oz (For Backpack Pump)		48	Mark 3 Pump	
23	Backpack Pump		49	Mark 3 Pump Kit- w/10 gal mixed fuel	
24	Pumpkin (Gallons?)		50	Chainsaw Kit	
25	Porta-Tank (Gallons?)		51	Mop-Up Kit, 3-Wand	
26	Shovel		52	Pump Kit, Lightweight, 2 Cycle	
27	Pulaski		53	Gas, Raw and 2 qts 2-cycle oil, ea	
28	Combi Tool		54	Lightweight Pump Kit-Cache w/5gal fuel	
29	McCloud		55	Gas, raw (gal) and 1 qt 2-cycle oil, ea.	
Notes:			Notes:		



UNIT LOG

1. Incident Name

2. Date Prepared

3. Time Prepared

4. Unit Name / Designators

5. Unit Leader (Name and Position)

6. Operational Period

7.

Personnel Roster Assigned

Name

ICS Position

Home Base

8.

Activity Log

Time

Major Events

9. Prepared by (Name and Position)