

# Lava & Bradley Incidents

Incident Action Plan  
Day Shift  
0700 – 1900

July 14, 2021



Shasta-Trinity National Forest



Shasta McCloud Management Unit

Lava

CA-SHF-0949

P5N3XW21 - 0514

IQCS Incident ID#: 550367

Bradley

CA-SHF-1067

P5N5MJ21-0514



## ORGANIZATION ASSIGNMENT LIST (ICS 203)

<b>1. Incident Name:</b> LAVA / BRADLEY		<b>2. Operational Period: Date From:</b> 7/14/2021 Time From: 0700		<b>Date To:</b> 7/14/2021 <b>Time To:</b> 1900	
<b>3. Incident Commander(s) and Command Staff:</b>			<b>7. Operation Section:</b>		
LAVA ICT3	Paul Zerr/Ryan Reginato (t)		Lava Operations	Mike Carter	
BRADLEY ICT3	Jake Akerberg		Bradley Ops		
Safety Officer	Matthew Lucas / Alan Kirby / Jason Martin (t)		Night Ops		
Information Officer	Jose Acasta / Rebecca Franco / Ben Gott / Amanda Monthel		Staging Area		
Liaison Officer			<b>Branch</b>	<b>LAVA</b>	
<b>4. Agency/Organization Representatives:</b>			Division/Group		
Agency/Organization	Name		Division/Group	PATROL	Daniel Cedeno
AADM Rep	Carolyn Napper		Division/Group	REPAIR	Juan Molve
CAL FIRE	Darryl Laws		Division/Group	TZ	Kent Cunningham
CHP	Robert Lynam		Division/Group	Night Patrol	
Timber Industries Lia	Darin Quigley		Division/Group		
Roseburg Forest	Ryan Duchi		<b>Branch</b>	<b>Bradley</b>	
Union Pacific RR	Gene Womack		Division/Group	A	Michael Cachero/Mathew Delaney (t)
Lake Shatina FD	Steven Pappas		Division/Group	Z	Robert Hoyle
Weed Fire	Brian Carter		Division/Group		
Siskiyou County SO	Lt Ben Whetstine		Division/Group		
			Division/Group		
			Division/Group		
<b>5. Planning Section:</b>			Division/Group		
Lava PSC3	Nisha van Hees		Division/Group		
Bradley PSC3	Hanne Meyers		Division/Group		
Resource Unit			Division/Group		
Situation Unit			Division/Group		
Documentation Unit			Division/Group		
Demobilization Unit			Division/Group		
GISS	Annette Navarre		Division/Group		
FBAN			Division/Group		
IMET			Division/Group		
Training Tech Spec			<b>Air Operations Branch</b>		<b>Director:</b>
FOBS			Air Support Group Supervisor		
READ	Nick Meyers		Helibase Manager		Tyler Detrick
<b>6. Logistics Section</b>					
Chief	Bill Fouts				
Supply Unit	Doug Powell		<b>8. Finance/Administration Section:</b>		
RCDM	Scott Jordan		Chief	Lee Piper FSC2(t)	
Driver	Corrie Abercrombie / John Neibal		Time Unit	Ariana Rivera	
Camp Crew	Chico 28 CCC's		Procurement Unit		
REMS	Mountain Medics		EQTR	Troy Boduro	
COML	Tony Martinez RADO: Matt Collins		Cost Unit		
MECH	Pete Taylor		PCRT	Sam Hyslop	
<b>Prepared By: Name:</b>	Nisha van Hees		Position/Title:	PSC	
<b>ICS 203</b>	<i>Nisha van Hees</i>		Date/Time:	7/13/2021 2300 hours	
			Signature:	<i>[Signature]</i>	
				<b>ICT3</b> NIMS IAP	

Spot Forecast for Bradley Fire...US Forest Service National Weather Service Medford OR  
1130 AM PDT Mon Jul 12 2021

Forecast is based on forecast start time of 1600 PDT on July 12. If conditions become unrepresentative...contact the National Weather Service.

DISCUSSION...Much of the same can be expected for the next several days. The only difference will be gradual cooling starting Wednesday and lasting into the end of the week, possibly into next weekend. It will stay dry with no threat for thunderstorms. Winds will pick up some late this afternoon into this evening, with locally gusty breezes possible mainly between 4 pm and 8 pm pdt. Winds tomorrow should be lighter, but could still encounter gusty breezes at times late in the afternoon and evening. Winds Wednesday could end up stronger (similar to today or slightly stronger), but relative humidities could end up slightly higher.

.REST OF TODAY...

Sky/weather.....Sunny. Haze.  
Max temperature.....98-100.  
Min humidity.....12 percent.  
Wind (20 ft).....Southwest 6-10 with gusts to 15 mph.  
Mixing height.....8200 ft AGL.  
Transport winds.....Southwest 9-16 mph.  
CWR.....0 percent.  
LAL.....1.  
Eye level winds.....Southwest 2-5 mph.

.TONIGHT...

Sky/weather.....Clear. Haze in the evening. Patchy smoke through the night.  
Min temperature.....50-52.  
Max humidity.....68 percent.  
Wind (20 ft).....Southwest 6-10 with gusts to 15 mph early this evening, then northeast 2-4 mph.  
Mixing height.....7800 ft AGL decreasing to 500 ft AGL later in the evening.  
Transport winds.....West to southwest 4-7 mph.  
CWR.....0 percent.  
LAL.....1.  
Eye level winds.....Southwest 2-5 mph early this evening, then variable 0-2 mph.

.TUESDAY...

Sky/weather.....Sunny. Areas of smoke.  
Max temperature.....96-98.  
Min humidity.....9 percent.  
Wind (20 ft).....Northeast 2-5 mph shifting southwest 5-9 with gusts to 12 mph in the afternoon.  
Mixing height.....500 ft AGL increasing to 8400 ft AGL in the afternoon.  
Transport winds.....Southeast 6-10 mph.  
CWR.....0 percent.  
LAL.....1.  
Eye level winds.....Northeast 1-3 mph shifting to the south to southwest 2-4 mph in the afternoon.

.FORECAST DAYS 3 THROUGH 7...

.TUESDAY NIGHT: Clear. Patchy smoke. 12600'. Lows in the lower 50s. South winds 5 to 7 mph.  
.WEDNESDAY: Sunny. Patchy smoke. 11900 ft. Highs in the mid 90s. Southwest winds 7-13 mph.  
.WEDNESDAY NIGHT: Clear. Patchy smoke. 12500 ft. Lows in the upper 40s. Southwest winds around 5 mph.  
.THURSDAY...Sunny. 11500 ft. Highs around 90. West winds around 5 mph.  
.THURSDAY NIGHT: Clear. 12200 ft. Lows in the upper 40s. West winds 5 to 6 mph.  
.FRIDAY: Sunny. 11100 ft. Highs in the upper 80s. Light winds.  
.SATURDAY...Clear. Lows in the mid 40s. Highs in the upper 80s.  
.SUNDAY...Clear. Lows in the upper 40s. Highs near 90.

Spot Forecast for LAVA FIRE...US FOREST SERVICE National Weather Service Medford OR  
1150 AM PDT Mon Jul 12 2021

Forecast is based on forecast start time of 1600 PDT on July 12. If conditions become unrepresentative...contact the National Weather Service.

DISCUSSION...Much of the same can be expected for the next several days. The only difference will be gradual cooling starting Wednesday and lasting into the end of the week, possibly into next weekend. It will stay dry with no threat for thunderstorms. Winds will pick up some late this afternoon into this evening, with locally gusty breezes possible mainly between 4 pm and 8 pm pdt. Winds tomorrow should be lighter, but could still encounter gusty breezes at times late in the afternoon and evening. Winds Wednesday could end up stronger (similar to today or slightly stronger), but relative humidities could end up slightly higher.

REST OF TODAY...

Sky/weather.....Sunny. Patchy smoke.  
Max temperature.....96-98.  
Min humidity.....15 percent.  
Wind (20 ft).....West to northwest 7-10 with gusts to 16 mph.  
Mixing height.....8800 ft AGL.  
Transport winds.....Southwest 12-18 mph.  
CWR.....0 percent.  
LAL.....1.  
Eye level winds.....West to northwest 4-8 mph.

.TONIGHT...

Sky/weather.....Clear. Patchy smoke.  
Min temperature.....58-60.  
Max humidity.....51 percent.  
Wind (20 ft).....Northwest 7-13 mph in the evening becoming northeast 2-5 mph.  
Mixing height.....8600 ft AGL decreasing 800 ft AGL later in the evening.  
Transport winds.....Northwest 4-8 mph.  
CWR.....0 percent.  
LAL.....1.  
Eye level winds.....Northwest 4-7 mph in the evening becoming northeast 1-3 mph.

.TUESDAY...

Sky/weather.....Sunny. Areas of smoke.  
Max temperature.....94-96  
Min humidity.....8 percent.  
Wind (20 ft).....Northeast 2-4 mph, becoming northwest 6-11 mph in the afternoon.  
Mixing height.....600 ft AGL increasing to 9300 ft AGL.  
Transport winds.....West to southwest 6-11 mph.  
CWR.....0 percent.  
LAL.....1.  
Eye level winds.....Northeast 1-3 mph, becoming northwest 3-5 mph in the afternoon.

FORECAST DAYS 3 THROUGH 7...

.TUESDAY NIGHT...Clear. Patchy smoke. 13000 ft. Lows around 60. West winds 5 to 6 mph.  
.WEDNESDAY...Sunny. Patchy smoke. 12200 ft. Highs in the lower 80s. Southwest winds 7-12 mph.  
.WEDNESDAY NIGHT...Mostly clear. Patchy smoke. 12600 ft. Lows in the upper 50s. Northwest winds 5 to 8 mph.  
.THURSDAY...Sunny. 11600 ft. Highs in the upper 70s. South winds around 5 mph.  
.THURSDAY NIGHT...Mostly clear. 12300 ft. Lows in the mid 50s. West winds 5 to 6 mph.  
.FRIDAY...Sunny. 11400 ft. Highs in the mid 70s. West winds around 5 mph.  
.SATURDAY...Clear. Lows in the lower 50s. Highs in the mid 70s.  
.SUNDAY...Clear. Lows in the mid 50s. Highs in the mid to upper 70s.

# FIRE BEHAVIOR FORECAST

<b>FORECAST NUMBER:</b> 17- 21	<b>TYPE OF FIRE:</b> Wildfire
<b>FIRE NAME:</b> Lava	<b>OPERATIONAL PERIOD:</b> Saturday-Monday, 10-14 July 2021
<b>TIME &amp; DATE ISSUED:</b> 1200 hours, July 9 2021	<b>SHIFT:</b> Day and Night
<b>UNIT:</b> Shasta Trinity NF, Mt. Shasta RD	<b>SIGNED:</b> Patrick Doyle, FBAN-t

## INPUTS

**WEATHER SUMMARY:** \*\*\* See Fire Weather Forecast for Details (see previous page) \*\*\*

- Seasonal conditions – extreme drought conditions, below average snowpack (currently 5% normal) add up to decreased fuel moisture conditions. This condition will prevail with hot temperatures, low daytime humidity and nighttime recovery rates from Saturday through Wednesday over fire.

**FUELS:** Lower slopes consist of grasses, manzanita, mountain mahogany, bitter brush, sage and shrubs with juniper, second growth ponderosa pine and mixed conifer in the overstory. Upper slopes consist mixed evergreen forest and dry mixed conifer, interspersed with shrub fields on upper slopes. Fuel continuity is sparse and broken on the upper slope of Mt Shasta as it nears tree-line, eventually fuels diminish to very sparse.

Mt Shasta (40217) RAWS trend:	July 10 (Mon.)	July 11 (Sun.)	July 12 (Mon.)	July 13 (Tue.)	July 14 (Wed.)
<b>ERC</b> (75 = 97 <sup>th</sup> Percentile)	78	79	80	81	80
<b>FM100</b> (7 = 3 <sup>rd</sup> Percentile) -%	6	6	6	5	6
<b>FM1000</b> (8 = 3 <sup>rd</sup> Percentile) - %	8	8	8	8	8
<b>Probability of Ignition</b> - % (shaded/unshaded)	100 / 70	90 / 60	90 / 60	90 / 60	90 / 60

## OUTPUTS

### GENERAL:

Overall, fire behavior will be minimal, except for interior pockets of residual heat finding available vegetation and duff that will smoke and flareup; and upper slopes on Mt Shasta where fire is burning in sparse fuels. Any new ignitions in lower slopes/valley, expect rapid rates of spread where alignment of wind, slope, fuels, and aspect to increase potential torching and crowning, and watch areas where spotting could occur.

Fuel Type (13 & 40)	Max. Rate of Spread (ch/hr)	Max. Flame Length (ft)	Spotting Distance (mi)
Grass (GS2) Timber grass understory	25-30	Up to 6 ft.	<0.2
Shrub (SH5)	14-144	Up to 22 ft.	<0.2
Timber (TU5) understory/litter	5-28	Up to 10 ft.	<0.2

### SPECIFIC FIRE BEHAVIOR:

#### Saturday- Wednesday 07/10-14

#### Lower slopes and Valley:

Minimal fire activity overall, isolated heat and scattered heat will continue to consume dead and down fuels with seasonally low fuel moistures. Occasional flareups in the interior will continue as available fuels are consumed. Watch out for any new activity near edge of fire that may threaten containment lines. Fire activity will diminish over the next 5-days as available fuels are consumed and become less available.

#### Upper slopes Mt Shasta:

Minimal-to-moderate fire activity will continue upper edges of fire, especially in the southeast portion of the fire where it is inaccessible and is burning upslope. Fuels are sparse/patchy fuels are primarily isolated to shrub field patches and trees (individual/clumps). Fuels available upslope for fire spread diminishes in 2000-3500 feet, from sparse and patchy to none. There is a degree of uncertainty that the fire growth over next five days will be intermittent.

### AIR OPERATIONS:

Gusty winds or smoke can potentially impair aerial support to ground resources. If fire activity increases significantly.

## SAFETY

As fire activity winds down, do not let your guard down. Make sure work area is assessed for fire weakened trees and potential rolling hazards (such as rocks & logs) when mopping up and repair work.

# ASSIGNMENT LIST (ICS 204 WF)

CONTROLLED UNCLASSIFIED  
INFORMATION//BASIC

<b>1. Incident Name:</b> <b>LAVA / BRADLEY</b>	<b>2. Operational Period:</b> Date From: 07/14/21    Date To: 07/14/21 Time From: 0700    Time To: 1900	<b>3. Branch</b> <b>Division</b> <b>LAVA</b> <b>PATROL</b>
<b>4. Operations Personnel:</b>		<b>Page 1 of 1</b>

Operations Section Chief: <b>Mike Carter</b>	Night Ops:
Branch Director:	Branch Safety:
Division/Group Supervisor: <b>Daniel Cedeno</b>	Air Attack:

5. Resources Assigned:							
Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
CRW2 PVT C-76 COBRAS		7/18	REYES, BEDOLLA	19	C-76	0700-1900	ICP
ENG6 TRUMEN 464		7/18	LESPER, BOB	3	E-262	0700-1900	ICP
ENG6 CARROLL E-263		7/18	LITTLE, JOSH	3	E-263	0700-1900	ICP
ENG6 PVT R2K E-254		7/17	STILLSMOKING, JOE	3	E-254	0700-1900	ICP
ENG6 Rocky Point 324		7/17	COLBRY, SETH	3	E-259	0700-1900	ICP
ENG6 Rocky Point 320		7/17	RAMSEY, CHRIS	3	E-260	0700-1900	ICP
W/T PVT E-86 TOUGH		7/27	LARSON, BRYAN	1	E-86	0700-1900	ICP
W/T PVT E-242 FORTNER		7/16	FORTNER, BOB	1	E-242	0700-1900	ICP
CRW2 C-60 OC 23		7/13	BLANCAS, RUDY	17	C-60	0700-1900	ICP
TFLD DANIEL		7/15	DANIEL, CHARLES	1	O-214	0700-1900	ICP
ENG3 ENF 314		7/14	HOFFMAN, CASEY	5	E-72	0700-1900	ICP
HEQB PARKER		7/14	PARKER, CASE	1	O-158	0700-1900	ICP
ENG3 INF 331		7/13	HUBBARD, BLAKE	5	E-71	0700-1900	ICP
ENG3 SQF 332		7/13	WORKMAN, DALTON J	5	E-74	0700-1900	ICP
W/T PVT E-81 LENAHAN		7/27	PARRIOT, JARED	1	E-81	0700-1900	ICP
W/T PVT E-83 LENAHAN		7/27	SPURLOCK, HANK	1	E-83	0700-1900	ICP
E-304		7/27	Paula	3	E-304	0700-1900	ICP
E-305		7/27	Vanessa	3	E-305	0700-1900	ICP

**6. Work Assignments:**  
**TASK:** Tactical Patrol. Eliminate hazards and mop-up where necessary.  
**PURPOSE:** To eliminate threats to the fire line.  
**END STATE:** Fire containment

**7. Special Instructions:**  
  
 Backhaul all trash and equipment.

8. Communications							
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
NIFC C29	4	COMMAND	171.5375	110.9 (T1)	164.8625	110.9 (T1)	
NIFC TAC 5	8	TACTICAL	166.7250	110.9 (T1)	166.7520	110.9 (T1)	
A/G TAC	13	AIR TO GROUND	169.1500	CSQ	169.1500	NONE	
A/G CMD	14	AIR TO GROUND	167.9500	CSQ	167.9500	NONE	
AIR GUARD	16	EMERGENCY	168.6250	CSQ	168.6250	110.9 (T1)	

**9. Prepared by: Name:** Nisha van Hees    PSC3    Signature: \_\_\_\_\_  
**ICS 204**    Date/Time: 7/13/2021 2200    Personnel Count: 18

# ASSIGNMENT LIST (ICS 204 WF)

CONTROLLED UNCLASSIFIED  
INFORMATION//BASIC

<b>1. Incident Name:</b>	<b>2. Operational Period:</b>	<b>3. Branch</b>	<b>Division</b>
<b>LAVA / BRADLEY</b>	Date From: 07/14/21      Date To: 07/14/21 Time From: 0700              Time To: 1900	<b>LAVA</b>	<b>REPAIR</b>
<b>4. Operations Personnel:</b>		Page 1 of 1	

Operations Section Chief: <b>Mike Carter</b>	Night Ops:
Branch Director:	Branch Safety:
Division/Group Supervisor: <b>Juan Molve</b>	Air Attack:

5. Resources Assigned:							
Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
W/T PVT E-24 WILLMORE		7/25	STOVER, JASON	1	E-24	0700-1900	ICP
W/T PVT E-25 WILLMORE		7/25	TORRES, BILL	1	E-25	0700-1900	ICP
W/T PVT E-31 PROPUMP		7/25	SEABOURNE, MIKE	2	E-31	0700-1900	ICP
DOZ SHF 79		7/21	HERNANDEZ, JOSHUA	2	E-247	0700-1900	ICP
TFLD WALTON		7/20	WALTON, DANIEL B	1	O-260	0700-1900	ICP
EXC PVT E-286 - EXCAVATOR		7/19	WATTJAN, TRAYSYN	1	E-286	0700-1900	ICP
EXC PVT E-288 - EXCAVATOR		7/19	MURDOCK, MIKE	1	E-288	0700-1900	ICP
HEQB PRICE		7/19	PRICE, NICHOLAS	1	O-356	0700-1900	ICP
GRD2 PVT E-271 LAMB		7/18	BROWER, JUSTIN	1	E-271	0700-1900	ICP
GRD2 PVT E-270 GREGORY		7/17	GREGORY, TOM	1	E-270	0700-1900	ICP
W/T PVT E-241 MIKE WATER		7/16	SMITH, LARRY	1	E-241	0700-1900	ICP
DOZ2 PVT E-115 NORTHSTATE		7/13	SILVA, JARED	2	E-115	0700-1900	ICP
TFLD GUNDLE(t)		7/13	GUNDLE, COLIN J	1	O-131	0700-1900	ICP

**6. Work Assignments:**  
**TASK:** Continue repair of fire suppression damage according to the Lava Fire Suppression repair plan  
**PURPOSE:** To maintain serviceability of all roads in the fire area.  
**END STATE:** Road are usable when the fire is contained.

**7. Special Instructions:**  
  
 Backhaul all trash and equipment.

8. Communications							
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
NIFC C29	4	COMMAND	171.5375	110.9 (T1)	164.8625	110.9 (T1)	
NIFC TAC 3	7	TACTICAL	168.6000	110.9 (T1)	168.6000	110.9 (T1)	
A/G TAC	13	AIR TO GROUND	169.1500	CSQ	169.1500	NONE	
A/G CMD	14	AIR TO GROUND	167.9500	CSQ	167.9500	NONE	
AIR GUARD	16	EMERGENCY	168.6250	CSQ	168.6250	110.9 (T1)	

**9. Prepared by: Name:** Nisha van Hees      PSC3  
 Signature: \_\_\_\_\_  
**ICS 204**      Date/Time: 7/13/2021 2200      Personnel Count: 10









Incident:

Lava CA-SH

Date:

Operational Period:

190



# ***SAFETY MESSAGE***

*Firefighter safety comes first on every fire, every time*



## **Weather Environment**

- Weather is remaining hot and dry and fuels moistures are 2 months ahead of normal for drying. Any new starts or spots can spread quickly. It isn't just this fire that is a threat, but any new start in fresh fuel.
- Wind patterns around Mt Shasta are unique, be sure you understand the forecast and brief all crews on expected weather.
- Brief the weather each day over the IAP period so that crews have the most up to date information.

## **Fireline:**

- As mop up duties increase, remember fire weakened trees are more at risk of coming down as time passes. Evaluate and re-evaluate your work area for hazards and mitigate before engaging deep interior mopping up.
- Some of the rehab is occurring along Hwy 97. Traffic moves fast and doesn't always pay attention. Post lookouts to watch for traffic when working right along the roadway.
- **Another reason why a strong LCES plan is critical.** It is your best tool to avoid an injury.

## **Transportation issues:**

- Watch out for local traffic. With the opening of Hwy 97 traffic in town has increased dramatically. Drive professionally and defensively.
- Forest roads in the fire area are getting very dusty. Slow your speed, use your lights and work with DIVS to get some dust abatement.
- Lava rocks are very tough on tires. Be especially mindful when traversing rocky areas and when out there alone. Make sure someone knows where you are in case you damage a tire.

**HAVE A SAFE SHIFT**

**Matt Lucas SOFR/Alan Kirby SOFR/Jason Martin SOFR(t)**



## INCIDENT SAFETY ANALYSIS 215a

Lava		July 10, 2021 0700-July 14 1900
8. Task	9. Hazard	<b>13. Identify hazard mitigations &amp; controls</b> (press [alt + enter] to add a line)
Bucket Work	Aircraft Mishap - General	<ul style="list-style-type: none"> <li>~ Ensure positive communication with all air resources</li> <li>~ Don't plan on air resources for medical transport or resupply</li> <li>~ Follow "Aviation Watch-Out Situations" IRPG Pg 46</li> <li>~ Refer to "Directing Bucket or Retardant Drops IRPG Pg 58</li> <li>~ Refer to "Aerial Retardant Safety" IRPG Pg 57</li> <li>~ Refer to "Aircraft Mishap Response Procedure" IRPG Pg 62</li> </ul>
Transportation - Ground/Roads Maintenance	Equipment - Crushed by Heavy Equipment/Rollover	<ul style="list-style-type: none"> <li>• When working around a dozer or tractor plow, stay at least 100 feet in front or 50 feet behind the equipment.</li> <li>• Allow no one but the operator to ride on the equipment.</li> <li>• Operators will wear required personal protective equipment (PPE) and carry a fire shelter.</li> <li>• Refer to Pg 86 of IRPG.</li> </ul>
Line Construction All	MVA - Surface	<ul style="list-style-type: none"> <li>~ Use Road Graders with Water Tenders for repair.</li> <li>~ Alternative route to limit over use.</li> <li>~ Scout and communicate on road conditions prior to driving on over used forest roads.</li> <li>~ Drive slow in poor road conditions.</li> <li>~ When getting pulled out stay clear of cables and chains. Have a plan before getting pulled out.</li> </ul>
Suppression Repair - Mechanical	Equipment - Crushed by Heavy Equipment/Rollover	<ul style="list-style-type: none"> <li>• Ensure communications are established with operators</li> <li>• Make positive contact with operator before approaching.</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 qualified operators and appropriate overhead.</li> <li>• Close roads or trails if necessary for public safety.</li> <li>• PPE including hearing protection.</li> <li>• Maintain safe working distance from equipment</li> </ul>
Line Construction All	Medical - Heat Related Illness	<ul style="list-style-type: none"> <li>~ Drink Fluids throughout operational period (6-8 quarts/shift).</li> <li>~ Maintain water/electrolyte ratio of 3 to 1.</li> <li>~ Carry extra water on line and cache water at drop points.</li> <li>~ Take frequent breaks, minimum of 10 minutes every hour.</li> <li>~ Allow out of area resources to acclimate before expecting peak performance.</li> <li>~ Recognize symptoms of HEAT RELATED INJURY.</li> </ul>
All Incident Operational Tasks	MVA - Other Vehicles	<ul style="list-style-type: none"> <li>• Drive with lights on.</li> <li>• Do not use cell phone while driving. Slow down in smoke and congested areas.</li> <li>• Look both ways on Hwy 97. Expect traffic to be traveling fast.</li> <li>• Slow down at night - expect animals in the road.</li> <li>• Use spotter for backing.</li> <li>• Wash windshield.</li> <li>• Utilize spike camps to reduce driving</li> </ul>

## INCIDENT SAFETY ANALYSIS 215a

Direct Line Construction - Hand tools/Saws	Hit by Rolling Material in Steep Terrain	<ul style="list-style-type: none"> <li>~ Have a lookout in place for rolling material</li> <li>~ Place crewmembers in a staggered pattern to avoid moving debris on fire personnel</li> </ul>
Line Construction All	Entrapment - Rapid Change in Fire Behavior	<ul style="list-style-type: none"> <li>• Utilized full PPE in fire area at all times</li> <li>• Implement LCES plan that accounts for extreme conditions.</li> <li>• Disengage at first sight of trouble and reassess.</li> <li>• Monitor Wx hourly and communicate findings to all.</li> <li>• Identify or construct safety zones adequate for personnel assigned to the area.</li> </ul>
Line Construction All	Hit by Tree/Snag/Branch	<ul style="list-style-type: none"> <li>~ Follow "Hazard Tree Safety" guidelines, IRPG page 22-23.</li> <li>~ Post lookouts or use a spotter in mop-up areas that have hazard trees.</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> <li>~ Maintain a hazard zone of a minimum of 2 1/2 tree heights.</li> <li>~ Perform a risk assessment before entering area and ask why and is the gain worth the risk.</li> </ul>
Direct Line Construction - Hand tools/Saws	Lava Beds	<ul style="list-style-type: none"> <li>~ Slow down and be sure of your footing.</li> <li>~ Wear gloves at all times</li> <li>~ Flag vehicle tubes and pass on info.</li> <li>~ Be mindful of tire damage when driving through lava beds.</li> </ul>
Patrol/Secure Fires Edge/Mop-up	Marijuana Grows/Criminally Active Area	<ul style="list-style-type: none"> <li>• Do not enter areas unless there is a law enforcement presence.</li> <li>• Be aware of the presence of toxic chemicals.</li> <li>• Local criminal elements and organized crime can be involved in the organization.</li> <li>• Anti-Personnel Devices (APD) may be present.</li> </ul>
Line Construction All	Railway Activity	<ul style="list-style-type: none"> <li>• Post a lookout when working on or near tracks</li> <li>• Only spend as much time on or crossing tracks as absolutely necessary.</li> <li>• Look up and down tracks at crossings.</li> </ul>

**INCIDENT RADIO  
COMMUNICATIONS PLAN**

**Incident Name**  
Bradley

**Date/Time Prepared**  
07-13-2021

**Operational Period Date/Time**  
07-14-2021 0700 – 07-14-2021 1900

Utilization of any frequency other than those listed on this form are prohibited; subject to fines by the FCC and demobilization from incident

Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq	N or W	RX Tone/NAC	TX Freq	N or W	Tx Tone/NAC	Mode A, D or M	Remarks
1	COMMAND	SHFR	ALL DIVS	171.5750 N			165.0125 N		156.7	A	Gray Butte
2	SERVICE NET	SHSN		171.5000 N			164.8250 N		156.7	A	Back up
3											
4											
5	TACTICAL	NIFC TAC1		168.0500 N			168.0500 N			A	
6	TACTICAL	NIFC TAC3		168.6000 N			168.6000 N			A	
7											
8											
9											
10											
11											
12											
13											
14	AIR TO GROUND	A/G TAC	ALL DIVS	167.0625 N			167.0625 N			A	INCIDENT WIDE
15	TACTICAL	CALCORD	ALL DIVS	156.0750 N		156.7	156.0750 N		156.7	A	MEDICAL
16	EMERGENCY	AIRGUARD	EMERGENCY	168.6250 N			168.6250 N		110.9	A	EMERGENCY ONLY

Prepared by (Communications Unit)

**Randy Durnil**

Incident Location McCloud Shasta NF  
County Siskiyou State Ca Latitude 41 16.417' N Longitude 121 58.645' W

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.



**INCIDENT RADIO COMMUNICATIONS PLAN**

**Incident Name**  
LAVA

**Date/Time Prepared**  
07-13-2021

**Operational Period Date/Time**  
07/15/2021 0700 – 07/21/2021 1900

Utilization of any frequency other than those listed on this form are prohibited, subject to fines by the FCC and demobilization from incident

Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq	N or W	RX Tone/NAC	TX Freq	N or W	Tx Tone/NAC	Mode A, D or M	Remarks
1	TACTICAL	SMMU		166.9875			166.9875		110.9		SHASTA MCCLOUD MNG UNT
2	FOREST NET	SHF-R		171.5750			165.0125		123.0		TONES 15, 6
3	TACTICAL	NIFC T2		168.2000			168.2000		131.8		
4	TACTICAL	R5 TAG4		166.5500			166.5500		136.5		
5	TACTICAL	R5 TAG5		167.1125			167.1125		146.2		
6	SERVICE NET	SERV-R		171.5000			164.8250		156.7		TONES 15, 6
7	CAL FIRE	SKU		151.3250			159.3600		167.9		
8	COMMAND	CDF C2		151.2850			159.3300		103.5		CAL FIRE COMMAND
9	TACTICAL	CDF T7		151.3400			151.3400		100.0		ZONE 16
10	TACTICAL	CDF T8		151.3700			151.3700		107.2		ZONE 16
11	TACTICAL	CDF T9		151.3850			151.3850		114.8		ZONE 16
12	TACTICAL	CDF T10		151.1900			159.2250		127.3		ZONE 16
13	COMMAND	SIS CMD		154.2500			156.1050		141.3		
14	TACTICAL	CALCORD		156.0750			156.0750		151.4		ZONE 6
15	AIR to GROUND	R5 AG08		166.8750			166.8750		162.2		
16	AIR to GROUND	R5 AG43		167.6000			167.6000		192.8		

Prepared by (Communications Unit)

**Randy Durnil**

Incident Location Weed Shasta NF  
County Siskiyou State Ca Latitude

This is a tone selectable zone.



# MEDICAL PLAN (ICS 206 WF)

1. Incident Name				2. Operational Period				
<b>Lava &amp; Bradley Fires</b>				Date/Time: <b>07/10/2021 – 07/14/2021</b>		<b>0700-1900</b>		
3. EMS / Ambulance Services								
Name	Location	Contact Method	Advanced Life Support (ALS)					
			Yes	No				
REMS 1	Available Incident Wide	Contact on Command	XX					
Mt. Shasta Ambulance	1020 Oak St. Mt. Shasta, CA 96067	530-842-7066	XX					
Ambulance 3	Available incident wide	Contact Command	XX					
4. Air Rescue / Air Ambulance Services								
Name	Contact	Type of Aircraft & Capability						
Helicopter 3JR	Lava Helibase	Type 3, BLS, Short Haul ( Day Only )						
CHP H14 / H16	Redding 530-226-2400	Type 3, ALS, Hoist ( Day Only )						
PHI Air Medical	Redding 530-226-2400	Type 3 Air Ambulance, ALS						
Reach 5	Redding 530-226-2400	Type 3 Air Ambulance, ALS						
5. Hospitals (all times estimated from incident location)								
Name & Level	GPS Datum – WGS 84 Degrees Decimal Minutes		Travel Time Air Ground		Phone	Helipad Yes No		Address
	Lat:		5 Mins	20 Min s		XX		
Mercy Mt. Shasta Medical Center	N 41° 19.117'	W 122° 19.203'			ER 530-926-9360			914 Pine St. Mt. Shasta, CA
Fairchild Medical Center	N 41° 43.164'	W 122° 38.741'	10 Mins	30 Min s	ER 530-841-6292	XX		444 Bruce St. Yreka, CA
Mercy Medical Center Level 2 Trauma STEMI / Stroke	N 40°34.33	W 122°23.80	20 Mins	1.25 Hrs	ER 530-225-7201	XX		2175 Rosaline Ave. Redding, CA
Shasta Regional Medical Center	N 40°35.160	W 122°23.262	20 Mins	1.25 Hrs	ER 530-244-5353	XX		1100 Butte St. Redding, CA
UC Davis Medical Center Level I Trauma / Burn	N 38°33.293	W 121°27.317	1.75 Hrs	3.5 Hrs	ER 916-734-3790 Burn 916-734-3636	XX		2315 Stockton Blvd. Sacramento, CA
6. Division / Crew Emergency Pre-Plan								
<i>Update and discuss with assigned resources daily.</i>								
Fireline EMT / Medic's Division / Branch Location								
Air Hoist site location site: Lat: / Long: / Elevation:								
Helispot: Lat: / Long: / Elevation:								
7. Prepared By (Medical Unit Leader)			8. Date/Time		9. Reviewed By (Safety Officer)		10. Date/Time	
/s/Matt Lucas			07/12/2021 15000		/s/Matt Lucas		07/12/2021 1500	

# MEDICAL PLAN (ICS 206 WF)

Medical Incident Report																													
<p><b>FOR A NON-EMERGENCY INCIDENT, WORK THROUGH CHAIN OF COMMAND TO REPORT AND TRANSPORT INJURED PERSONNEL AS NECESSARY.</b></p> <p><b>FOR A MEDICAL EMERGENCY: IDENTIFY ON SCENE INCIDENT COMMANDER BY NAME AND POSITION AND ANNOUNCE "MEDICAL EMERGENCY" TO INITIATE RESPONSE FROM IMT COMMUNICATIONS/DISPATCH.</b></p>																													
<p><b>Use the following items to communicate situation to communications/dispatch.</b></p>																													
<p><b>1. CONTACT COMMUNICATIONS / DISPATCH</b> (Verify correct frequency prior to starting report)  <i>Ex: "Communications, Div. Alpha. Stand-by for Emergency Traffic."</i></p> <p><b>2. INCIDENT STATUS:</b> Provide incident summary (including number of patients) and command structure.  <i>Ex: "Communications, I have a Red priority patient, unconscious, struck by a falling tree. Requesting air ambulance to Forest Road 1 at (Lat./Long.) This will be the Trout Meadow Medical, IC is TFLD Jones. EMT Smith is providing medical care."</i></p>																													
Severity of Emergency / Transport Priority	<p><input type="checkbox"/> <b>RED / PRIORITY 1 Life or limb threatening injury or illness. Evacuation need is IMMEDIATE</b>  <i>Ex: Unconscious, difficulty breathing, bleeding severely, 2° – 3° burns more than 4 palm sizes, heat stroke, disoriented.</i></p> <p><input type="checkbox"/> <b>YELLOW / PRIORITY 2 Serious Injury or illness. Evacuation may be DELAYED if necessary.</b>  <i>Ex: Significant trauma, unable to walk, 2° – 3° burns not more than 1-3 palm sizes.</i></p> <p><input type="checkbox"/> <b>GREEN / PRIORITY 3 Minor Injury or illness. Non-Emergency transport</b>  <i>Ex: Sprains, strains, minor heat-related illness.</i></p>																												
Nature of Injury or Illness & Mechanism of Injury			<p><i>Brief Summary of Injury or Illness (Ex: Unconscious, Struck by Falling Tree)</i></p>																										
Transport Request			<p><i>Air Ambulance / Short Haul/Hoist Ground Ambulance / Other</i></p>																										
Patient Location			<p><i>Descriptive Location &amp; Lat. / Long. (WGS84)</i></p>																										
Incident Name			<p><i>Geographic Name + "Medical" (Ex: Trout Meadow Medical)</i></p>																										
On-Scene Incident Commander			<p><i>Name of on-scene IC of Incident within an Incident (Ex: TFLD Jones)</i></p>																										
Patient Care			<p><i>Name of Care Provider (Ex: EMT Smith)</i></p>																										
<p><b>3. INITIAL PATIENT ASSESSMENT:</b> Complete this section for each patient as applicable (start with the most severe patient)</p> <p>Patient Assessment: See IRPG PAGE 106</p>																													
Treatment:																													
<p><b>4. TRANSPORT PLAN:</b></p> <p>Evacuation Location (if different): (Descriptive Location (drop point, intersection, etc.) or Lat. / Long.) Patient's ETA to Evacuation Location:</p>																													
Helispot / Extraction Site Size and Hazards:																													
<p><b>5. ADDITIONAL RESOURCES / EQUIPMENT NEEDS:</b></p> <p><i>Example: Paramedic/EMT, Crews, Immobilization Devices, AED, Oxygen, Trauma Bag, IV/Fluid(s), Splints, Rope rescue, Wheeled litter, HAZMAT, Extrication</i></p>																													
<p><b>6. COMMUNICATIONS: Identify State Air/Ground EMS Frequencies and Hospital Contacts as applicable</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Function</th> <th style="width: 25%;">Channel Name/Number</th> <th style="width: 15%;">Receive (RX)</th> <th style="width: 15%;">Tone/NAC *</th> <th style="width: 15%;">Transmit (TX)</th> <th style="width: 15%;">Tone/NAC *</th> </tr> </thead> <tbody> <tr> <td>COMMAND</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>AIR-TO-GRND</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TACTICAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Function	Channel Name/Number	Receive (RX)	Tone/NAC *	Transmit (TX)	Tone/NAC *	COMMAND						AIR-TO-GRND						TACTICAL					
Function	Channel Name/Number	Receive (RX)	Tone/NAC *	Transmit (TX)	Tone/NAC *																								
COMMAND																													
AIR-TO-GRND																													
TACTICAL																													
<p><b>7. CONTINGENCY: <u>Considerations:</u> If primary options fail, what actions can be implemented in conjunction with primary evacuation method? Be thinking ahead.</b></p>																													
<p><b>8. ADDITIONAL INFORMATION:</b> Updates/Changes, et c.</p>																													
<p><b>REMEMBER:</b> Confirm ETA's of resources ordered. Act according to your level of training. Be Alert. Keep Calm. Think Clearly. Act Decisively.</p>																													