Lava Incident

Incident Action Plan
Day Shift
0700 – 1900

July 10-14, 2021

Shasta-Trinity National Forest

Shasta McCloud Management Unit

CA-SHF-0949

P5N3XW21 - 0514

IQCS Incident ID#: 550367

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name:	2. Operational Period:	Date From:	7/10/2021	Date To:	7/14/2021
LAVA FIRE		Time From:	0700	Time To:	1900

3. Objective(s):

Management Objectives

- Ensure firefighter and public safety by using strategies and tactics that mitigate known and anticipated hazards while providing for highest probability of success.
- Maintain and enhance relationships with represented agencies, local landowners, and the general public.
- Provide timely and accurate fire information to cooperators and affected communities.
- Protect the natural and cultural resources in the fire area. Utilize M.I.S.T. in the Mt. Shasta Wilderness area.
- Effectively manage cost by implementing strategies and tactics that have a high probability of success.
- Reduce the threat to private property, residences, and infrastructure.
- Initiate suppresion repair in compliance with the Lava Fire Suppression Repair Plan.

Control Objectives

- Keep the fire within the current perimeter.

General Situational Awareness:

Steep and rugged terrain, critically dry and receptive fuel beds, active area for fire history and drought stressed trees.

In the COVID-19 environment, high density populations or large groups are particularly at risk. To help protect yourself, your family and to ensure all employees return home safely, make sure to practice social distancing.

Enhanced hygiene (especially handwashing), PPE & monitoring practices help limit the infection rate of first responders.

5. Site Safety Plan Required? Yes ☐ No

Approved Site Safety Plan(s) Located at:

6. Incident Action Plan

☑	ICS 203	☑	ICS 215A	☐	ICS 205 A	☐	
☑	ICS 204	☑	ICS 220	☐	Training Message	☐	
☑	ICS 205	☐	Facility Maps	☑	Travel Map	☑	HR Message
☑	ICS 206	☑	Weather Forecast	☐	Demob Plan	☐	County Health Message
☑	ICS 208	☑	Fire Behavior	☐	Finance Message	☑	ICS 214

7. Prepared By: Nisha van Hees Position/Title: PSC Signature: Nisha van Hees

8. Approved by Incident Commander: Paul Zerr Signature:

ORGANIZATION ASSIGNMENT LIST (ICS 203)

1. Incident Name:	2. Operational Period: Date From:	7/10/2021	Date To:	7/14/2021
LAVA FIRE	Time From:	0700	Time To:	1900

3. Incident Commander(s) and Command Staff:	
ICT3	Paul Zerr
ICT3(t)	Ryan Reginato
Safety Officer	Matthew Lucas / Alan Kirby / Jason Martin (t)
Information Officer	Jose Acasta / Rebecca Franco / Ben Gott / Amanda Monthel
Liaison Officer	

4. Agency/Organization Representatives:	
Agency/Organization	Name
AADM Rep	Carolyn Napper
CAL FIRE	Darryl Laws
CHP	Robert Lynam
Timber Industries Lia	Darin Quigley
Roseburg Forest	Ryan Duchi
Union Pacific RR	Gene Womack
Lake Shatina FD	Steven Pappas
Weed Fire	Brian Carter
Siskiyou County SO	Lt Ben Whetstine

5. Planning Section:	
Chief	Nisha van Hees
Deputy	
Resource Unit	
Situation Unit	
Documentation Unit	Jocelyn Howell(t) *virtual*
Demobilization Unit	
GISS	Annette Navarre
FBAN	
IMET	Eric Kurth
Training Tech Spec	
FOBS	Joseph Parr / Brian Barron
READ	Nick Myers

6. Logistics Section	
Chief	Bill Fouts
Supply Unit	Doug Povwell
RCDM	Scott Jordan
Driver	Corrie Abercrombie / John Neibal
Camp Crew	Chico 28 CCC's
REMS	Mountain Medics
COML	Tony Martinez RADO: Lauren Yerkes
MECH	Pete Taylor

7. Operation Section:		
Operations	Mike Carter	
Planning Ops		
Night Ops		
Staging Area		
Branch		
Division/Group		
Division/Group	PATROL	Daniel Cedeno / John Hunt(t)
Division/Group	REPAIR	Juan Molve
Division/Group	TZ	Kent Cunningham
Division/Group	Night Patrol	
Division/Group		
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Division/Group		
Air Operations Branch		**Director:**
Air Support Group Supervisor		
Helibase Manager		

8. Finance/Administration Section:	
Chief	Paul Wood
Time Unit	Ariana Rivera
Procurement Unit	
EQTR	Troy Boduro
Cost Unit	
PCRT	Sam Hyslop

Prepared By: Name: Nisha van Hees Position/Title: PSC Signature: _____

ICS 203 Date/Time: 7/9/2021 2300 hours

NIMS IAP

Fire Weather Forecast

FORECAST NO: 15
PREDICTION FOR: 7/10-14/2021
SHIFT DATE: Day & Night (0700-0700)
FORECAST ISSUED: 1110 7/9/2021

NAME OF FIRE: Lava Fire
UNIT: CA-SHF
SIGNED: ***Eric C. Kurth,***
Incident Meteorologist
eric.kurth@noaa.gov **(240)-778-5292**

...Hot this Weekend Through Wednesday...

WEATHER DISCUSSION: Sunny and hot with patchy smoke and haze. The inversion today will break by early morning. Morning low temperatures are expected to be warm, along with poor to moderate humidity recoveries. Winds will be light downslope in the early morning, becoming southerly and increasing to 5 to 10 mph, with gusts to 15 mph in the afternoon on the east side of the fire. Winds turn northwest in the early evening then become light downslope/down-canyon winds after midnight. Little change is expected into mid-week with a continued diurnal wind pattern and hot temperatures. High temperatures in the valleys will reach into the low triple digits. The air will be dry with humidity levels dropping down into the teens for most locations in the afternoon. Morning low temperatures should remain warm, along with moderate humidity recoveries low elevations, poor over ridges.

WEATHER FORECAST TODAY:

WEATHER: Sunny. Haze with local smoke near active fire.
MAX TEMPERATURES: 99-103 valleys and 90-97 ridges.
MIN HUMIDITY: 9-14 percent valleys and 17-22 percent ridges.

20 FT WINDS:

UPPER SLOPE/RIDGETOP - Light downslope winds becoming southwest 5 to 10 mph by mid-morning. Winds gust up to 20 mph in the afternoon. Winds shift to the west northwest 5 to 10 mph with gusts to 15 mph around 1700 PDT.

LOWER SLOPE/VALLEY - Light downslope winds becoming southeast 4 to 9 mph with gusts to 15 mph in the early afternoon. For the northern portion of the fire area winds shift to west northwest 4 to 8 mph with gusts to around 14 mph around 1700 PDT.

HAINES INDEX: 6
LAL: 1
STABILITY/INVERSION: Weak morning inversion breaks mid-morning.

WEATHER FORECAST TONIGHT:

WEATHER: Mostly clear with local smoke.
MIN TEMPERATURES: 60-66 valleys and 55-62 ridges.
MAX HUMIDITY: 42-52 percent valleys and 30-40 percent ridges.

20 FT WINDS:

UPPER SLOPE/RIDGETOP - Winds west northwest 5 to 10 mph with gusts to 15 mph in the early evening. Winds overall decrease after 2200 PDT, gradually becoming downslope 2 to 5 mph overnight.

LOWER SLOPE/VALLEY - Winds northwest 4 to 8 mph with gusts to 15 mph in the early evening. Winds overall decrease after 2100 PDT, gradually becoming variable 1 to 4 mph overnight.

HAINES INDEX: 5
LAL: 1
STABILITY/INVERSION: Inversion develops after midnight with smoke laying down in low areas.

Extended Outlook: Dry weather continues. Significant heat peaks on Sunday, continuing into mid-week. A gradual cooling trend is expected late next week.

2-5 DAY FORECAST:
SUN- Sunny High Temp 100 to 103 valleys, 90-98 ridges, Min RH: 10-20% Wind gusts: S 12 mph
MON- Sunny High Temp 99 to 101 valleys, 89-97 ridges, Min RH: 12-22% Wind gusts: S 15 mph
TUE- Sunny High Temp 98 to 100 valleys, 88-96 ridges, Min RH: 12-22% Wind gusts: S 16 mph
WED- Sunny High Temp 96 to 99 valleys, 86-94 ridges, Min RH: 14-24% Wind gusts: S 15 mph

Scan for current local weather observations:

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 17- 21	**TYPE OF FIRE: Wildfire**
FIRE NAME: Lava	**OPERATIONAL PERIOD: Saturday-Monday, 10-14 July 2021**
TIME & DATE ISSUED: 1200 hours, July 9 2021	**SHIFT: Day and Night**
UNIT: Shasta Trinity NF, Mt. Shasta RD	**SIGNED:** 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.)**
ERC (75 = 97th Percentile)	78	79	80	81	80
FM100 (7 = 3rd Percentile) -%	6	6	6	5	6
FM1000 (8 = 3rd Percentile) - %	8	8	8	8	8
Probability of Ignition - % (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)

1. Incident Name:	2. Operational Period:				3. Branch	Division
LAVA FIRE	Date From:	07/10/21	Date To:	07/14/21		PATROL
	Time From:	0700	Time To:	1900		
4. Operations Personnel:					Page 1 of 1	

Operations Section Chief: **Mike Carter**
Branch Director:
Division/Group Supervisor: **Daniel Cedeno / John Hunt(t)**

Night Ops:
Branch Safety:
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		7/17	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		7/15	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		7/13	PARRIOT, JARED	1	E-81	0700-1900	ICP
W/T PVT E-83 LENAHAN		7/13	SPURLOCK, HANK	1	E-83	0700-1900	ICP
STC SHF 3675C		7/11	FLYN, SCOTT	27	E-107	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: Danny Douglas RESL

Signature:

ICS 204 Date/Time: 7/9/2021 2200 Personnel Count: 18

NIMS IAP

ASSIGNMENT LIST (ICS 204 WF)

1. Incident Name:	2. Operational Period:				3. Branch	Division
LAVA FIRE	Date From:	07/10/21	Date To:	07/14/21	REPAIR	
	Time From:	0700	Time To:	1900		

4. Operations Personnel:

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

5. Resources Assigned:

Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
W/T PVT E-23 WILLMORE		7/25	ANDERSON, MICHELLE	1	E-23	0700-1900	ICP
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
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-119 NORTHSTATE		7/14	RANIHAN, JESSE	2	E-119	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
DOZ SHF 79		7/10	HERNANDEZ, JOSHUA	2	E-247	0700-1900	ICP
W/T PVT E-27 PJ&R		7/10	YOKOYAMA, PAUL	1	E-27	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: Danny Douglas RESL

Signature:

ICS 204 Date/Time: 7/9/2021 2200 Personnel Count: 15

NIMS IAP

ASSIGNMENT LIST (ICS 204 WF)

1. Incident Name:	2. Operational Period:				3. Branch	Division
LAVA FIRE	Date From:	07/10/21	Date To:	07/14/21		TZ
	Time From:	0700	Time To:	1900		
4. Operations Personnel:					Page 1 of 1	

Operations Section Chief: **Mike Carter**
Branch Director:
Division/Group Supervisor: **Kent Cunningham**
Night Ops:
Branch Safety:
Air Attack:

5. Resources Assigned:

Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
DOZ3 PVT E-123 CODY LAMB		7/20	LAMB, CODY	3	E-123	0700-1900	Cold Springs X 97
DOZ3 PVT E-125 SUNRISE		7/20	ANDREW, BYRON	2	E-125	0700-1900	Cold Springs X 97
W/T PVT E-10009 WATER WETTER			SISSON, MICHAEL	1	E-10009	0700-1900	Cold Springs X 97
W/T PVT E-10064 MCLANE			MCLANE, BILL	1	E-10064	0700-1900	Cold Springs X 97
EXC PVT E-10096 RIDGE		7/20	WALKER, JASON	1	E-10096	0700-1900	Cold Springs X 97
EXC PVT E-10094 - EXCAVATOR		7/19	TODD, JEREMY	1	E-10094	0700-1900	Cold Springs X 97
EXC PVT E-10104 SW MAINT			WARD, JEREMY	2	E-10104	0700-1900	Cold Springs X 97
SKD PVT E-10092 MULCHER		7/19	SCALA JOSH	1	E-10092	0700-1900	Cold Springs X 97
DIVS IRVINE			IRVINE, SCOTT	1	O-10038	0700-1900	Cold Springs X 97
FSRS DENMAN			DENMAN, DAMON	1	O-10067	0700-1900	Cold Springs X 97

6. Work Assignments:

TASK: Tactical Patrol. Eliminate hazards and mop-up where necessary. Complete suppression repair where appropriate.
PURPOSE: To eliminate threats to the fire line. Repair fire suppression effort damages.
END STATE: Fire containment and recovery.

7. Special Instructions:

Backhaul all trash and equipment.

8. Communications

Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
NIFC C9	3	COMMAND	170.0125	110.9 (T1)	168.2500	110.9 (T1)	
CDF TAC 24	11	TACTICAL	151.3325	192.8 (T16)	151.3325	192.8 (T16)	
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: Danny Douglas RESL

Signature:

ICS 204 Date/Time: 7/9/2021 2200 Personnel Count: 14

NIMS IAP

ASSIGNMENT LIST (ICS 204 WF)

1. Incident Name:	2. Operational Period:				3. Branch	Division
LAVA FIRE	Date From:	07/10/21	Date To:	07/14/21	Night Patrol	
	Time From:	0700	Time To:	1900	Page 1 of 1	

4. Operations Personnel:

Operations Section Chief: **Mike Carter**	Night Ops:
Branch Director:	Branch Safety:
Division/Group Supervisor:	Air Attack:

5. Resources Assigned:

Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
ENG6 CO PSF 111		7/17	NEWMAN, CHUCK	5	E-250	1900-0700	ICP

6. Work Assignments:

Tactical patrol between DP14 to DP2 on Hwy 97

7. Special Instructions:

Backhaul all trash and equipment.

8. Communications

Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
SHFR	1	SHASTA FOREST	171.5750	CSQ	165.0125	162.2 (T15)	
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: Danny Douglas RESL

Signature:

ICS 204 Date/Time: 7/9/2021 2200 Personnel Count: 5

NIMS IAP

Incident: Lava CA-SHF-000949	*Date:* 7-10-21 thru 7-14-21	*Operational Period:* 0700-1900

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 are 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)

AIR OPERATIONS SUMMARY ICS-220

Time Prepared	Date Prepared	Prepared By
1130	Friday, July 09, 2021	Jason Nava

Incident Name and Incident Number	Sunrise	Startup	Cutoff	Sunset	Shutdown	Operational Period - Date	Operational Period - Time
Lava CA-SHF-0949	TBD	TBD	*TBD*	*TBD*	TBD	7/10-15/2021	0700-2100

General Remarks, Safety Notes, Hazards, Air Operations Special Equipment, etc.
TRACK ALL DIPSITE LOCATIONS / NUMBER OF DIPS / GALLONS TAKEN.
TRACK ALL DROP LOCATIONS / NUMBER OF DROPS / GALLONS DROPPED
All GPS DATA TO BE COLLECTED IN DEGREES, MINUTES, DECIMAL MINUTES FORMAT.
AVOID Aerial Application of Retardant / Foam / Agent within 300' of Waterways, Bodies of Water, etc.
If Retardant / Foam / Agent is Dropped Within These Areas Immediately Notify the AOBD and Provide the Following Information: Lat / Long, Estimated Number of Gallons and a Map Detailing The Area. Approved Dipsites only

Helibase Information
Name LAVA
Latitude 41° 15.87
Longitude 122° 16.34

Name SISKIYOU
Latitude 41° 46.16'
Longitude 122° 28.64'
(use page 2 if needed)

TFR Information
Request # A-
Radius: POLYGON NM
Altitude: 12000' MSL
Centerpoint: Lat / Long
NOTAMS: 1/3867
Frequency 120.025
http://tfr.faa.gov/tfr2/list.html

Rescue Ship Information

	Day	Night
Name	Bones	
Phone	406-212-4515	
Make/Model	AS=350-B3E	
Location		

Request Procedure for These Aircraft:
See Medical Plan For Additional Info

Frequencies	RX	Tone	TX	Tone	AM / FM
AIR / GROUND	169.1500		169.1500		
AIR / AIR Rotary Wing	124.0250		124.0250		AM
TFR	120.0250		120.0250		AM
DECK-LAVA	163.1000		163.1000		FM
					FM
CALCORD - MEDICAL	156.0750	156.7 (6)	156.0750	156.7 (6)	FM

Position	Name	Phone	Trainee Name	Phone
AOBD				
ASGS (T)				
HEBM	Lava BLAINE COYLE	209-459-9245		
HEBM	Tyler Detrick	530-339-6687		
ATGS				
HLCO				
HLCO				
HLCO				

HELICOPTERS (Use page 2 if Needed)

FAA #	Type	Make/Model	Helibase	Avail	Start	Remarks / A - #
8AC	1	S-64	LAVA	700	800	
H506	2	205++	LAVA	700	800	
3JR	3	AS-350-B3E	LAVA	700	800	SHORTHAUL

FAA #	Type	Make/Model	Helibase	Avail	Start	Remarks / A - #

FIXED WING (Use Page 2 if Needed)

FAA #	Type	Make/Model	Base	Avail	Start	Remarks

FAA #	Type	Make/Model	Base	Avail	Start	Remarks

Planned Missions (Includes: Water Dropping, Retardant, Recon, Rescue, Cargo, Personnel Transport, Air Attack, HLCO, etc.)

Mission	Aircraft	Start Time	Daparture Point	Destination	Instructions For Aircraft or Name of Personnel or Type of Cargo (if applicable)
WATER DROPPING					AS REQUESTED
RECON					AS REQUESTED
RETARDANT					AS REQUESTED

Notes:

INCIDENT SAFETY ANALYSIS 215a

Lava		July 10, 2021 0700-July 14 1900
8. Task	**9. Hazard**	**13. Identify hazard mitigations & controls** (press [alt + enter] to add a line)
Bucket Work	Aircraft Mishap - General	~ Ensure postive communication with all air resources ~ Don't plan on air resources for medical transport or resupply ~ Follow "Aviation Watch-Out Situations" IRPG Pg 46 ~ Refer to "Directing Bucket or Retardant Drops IRPG Pg 58 ~ Refer to "Aerial Retardant Safety" IRPG Pg 57 ~ Refer to"Aircraft Mishap Response Procedure" IRPG Pg 62
Transportation - Ground/Roads Maintenance	Equipment - Crushed by Heavy Equipment/Rollover	• When working around a dozer or tractor plow, stay at least 100 feet in front or 50 feet behind the equipment. • Allow no one but the operator to ride on the equipment. • Operators will wear required personal protective equipment (PPE) and carry a fire shelter. • Refer to Pg 86 of IRPG.
Line Construction All	MVA - Surface	~ Use Road Graders with Water Tenders for repair. ~ Alternative route to limit over use. ~ Scout and communicate on road conditions prior to driving on over used forest roads. ~ Drive slow in poor road conditions. ~ When getting pulled out stay clear of cables and chains. Have a plan before getting pulled out.
Suppression Repair - Mechanical	Equipment - Crushed by Heavy Equipment/Rollover	•Ensure communications are established with operators •Make positive contact with operator before approaching. • Use hand signals if other communications are unavailable • Maintain a 50'-100' exclusion area around equipment • Use a spotter when backing qualified operators and appropriate overhead. • Close roads or trails if necessary for public safety. • PPE including hearing protection. • Maintain safe working distance from equipment
Line Construction All	Medical - Heat Related Illness	~ Drink Fluids throughout operational period (6-8 quarts/shift). ~ Maintain water/electrolyte ratio of 3 to 1. ~ Carry extra water on line and cache water at drop points. ~ Take frequent breaks, minimum of 10 minutes every hour. ~ Allow out of area resources to acclimate before expecting peak performance. ~ Recognize symptoms of HEAT RELATED INJURY.
All Incident Operational Tasks	MVA - Other Vehicles	• Drive with lights on. • Do not use cell phone while driving. Slow down in smoke and congested areas. • Look both ways on Hwy 97. Expect traffic to be traveling fast. • Slow down at night - expect animals in the road. • Use spotter for backing. • Wash windshield. • Utilize spike camps to reduce driving

INCIDENT SAFETY ANALYSIS 215a

Direct Line Construction - Hand tools/Saws	Hit by Rolling Material in Steep Terrain	~ Have a lookout inplace for rolling material ~ Place crewmembers in a staggered pateren to avoid moving debris on fire personnel
Line Construction All	Entrapment - Rapid Change in Fire Behavior	• Utilized full PPE in fire area at all times • Implement LCES plan that accounts fro extreme conditions. • Disengage at first sight of trouble and reassess. • Monitor Wx hourly and communicate findings to all. • Identify or construct safety zones adaquate for personnel assigned to the area.
Line Construction All	Hit by Tree/Snag/Branch	~ Follow "Hazard Tree Safety" guidelines, IRPG page 22-23. ~ Post lookouts or use a spotter in mop-up areas that have hazard trees. ~ Don't park vehicles or take breaks in high concentrations of hazard trees. ~ Establish trigger points for disengagement during high wind events. ~ Maintain a hazard zone of a minimum of 2 1/2 tree heights. ~ Perform a risk assessment before entering area and ask why and is the gain worth the risk.
Direct Line Construction - Hand tools/Saws	Lava Beds	~ Slow down and be sure of your footing. ~ Wear gloves at all times ~ Flag verticle tubes and pass on info. ~ Be mindful of tire damage when driving through lava beds.
Patrol/Secure Fires Edge/Mop-up	Marijuana Grows/Criminally Active Area	• Do not enter areas unless there is a law enforcement presence. • Be aware of the presence of toxic chemicals. • Local criminal elements and organized crime can be involved in the organization. • Anti-Personnel Devices (APD) may be present.
Line Construction All	Railway Activity	• Post a lookout when working on or near tracks • Only spend as much time on or crossing tracks as absolutely necessary. • Look up and down tracks at crossings.

INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)	Incident Name	Date/Time Prepared	Operational Period Date/Time
	LAVA	**7/09/2021 0730**	**7/10/2021 0700 - 7/14/2021 1900**

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

Zn 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	Dev	Pwr	Mode A, D or M	Remarks
1	COMMAND	SHFR	SHASTA FOREST	171.5750	CSQ	165.0125	Tone 15 162.2	N	H	A	BACK-UP, I/A ONLY
2	COMMAND	NIFC C1	ALL DIVS	170.9750	Tone 1 110.9	168.7000	Tone 1 110.9	N	H	A	WEED
3	COMMAND	NIFC C9	ALL DIVS	170.0125	Tone 1 110.9	165.2500	Tone 1 110.9	N	H	A	ANTELOPE
4	COMMAND	NIFC C29	ALL DIVS	171.5375	Tone 1 110.9	164.8625	Tone 1 110.9	N	H	A	HERD PEAK
5	TACTICAL	NIFC TAC 2	I/A ONLY	168.2000	CSQ	168.2000	NONE	N	H	A	I/A ONLY
6											
7	TACTICAL	NIFC TAC 3	REPAIR	168.6000	Tone 1 110.9	168.6000	Tone 1 110.9	N	L	A	BRANCH I
8	TACTICAL	NIFC TAC 5	PATROL	166.7250	Tone 1 110.9	166.7250	Tone 1 110.9	N	L	A	BRANCH III
11	TACTICAL	CDF TAC 24	DIV T / Z	151.3325	Tone 16 192.8	151.3325	Tone 16 192.8	N	L	A	BRANCH V
13	Air-to-Ground	A/G TAC	ALL DIVS	169.1500	CSQ	169.1500	NONE	N	L	A	
14	Air-to-Ground	A/G CMD	ALL DIVS	167.9500	CSQ	167.9500	NONE	N	H	A	INCIDENT WIDE
15	TACTICAL	CALCORD	ALL DIVS	156.0750	Tone 6 156.7	156.0750	Tone 6 156.7	N	L	A	MEDICAL
16	EMERGENCY	AIR GUARD	EMERGENCY	168.6250	CSQ	168.6250	Tone 1 110.9	N	L	A	EMERGENCY ONLY

Prepared By (Communications Unit Leader)

ANTHONY MARTINEZ, COML (530) 515-3282

Incident Location:WEED **Forest / Unit / Jurisdiction:** SHASTA NF

County: SISKIYOU State: CA Latitude: " N Longitude: W

The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). The letter "U", "N", or "W" in the deviation (Dev) column reflects whether the frequency is ultranarrow (6.25 kHz), narrow (12.5 kHz) or wide band (25 kHz). Mode refers to either "A" indicating Analog, "D" indicating 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. Repeaters (and depending on use, base stations) must be programmed with the Rx and Tx reversed.

Lava Fire
Human Resource Message
July 10-14, 2021

Personality Factors in Emergency Personnel…

Research indicates that emergency personnel have different personalities from the average person who has a less risky or demanding job.

Emergency personnel are more interested in details than people from other professions.

They take pride in doing a perfect job, set personal standards that are extremely high, and become frustrated when they fail. This attention to detail helps them do a better job, but it also sets them up for the stress associated with a failure to achieve high expectations.

They are action oriented. They are quick decision makers under pressure and task oriented. They seek immediate results and are easily bored.

Risk taking behaviors accompany action orientation in their personalities. They often seek sports activities that are highly stimulating and exciting because they are easily bored and need something to keep them alert.

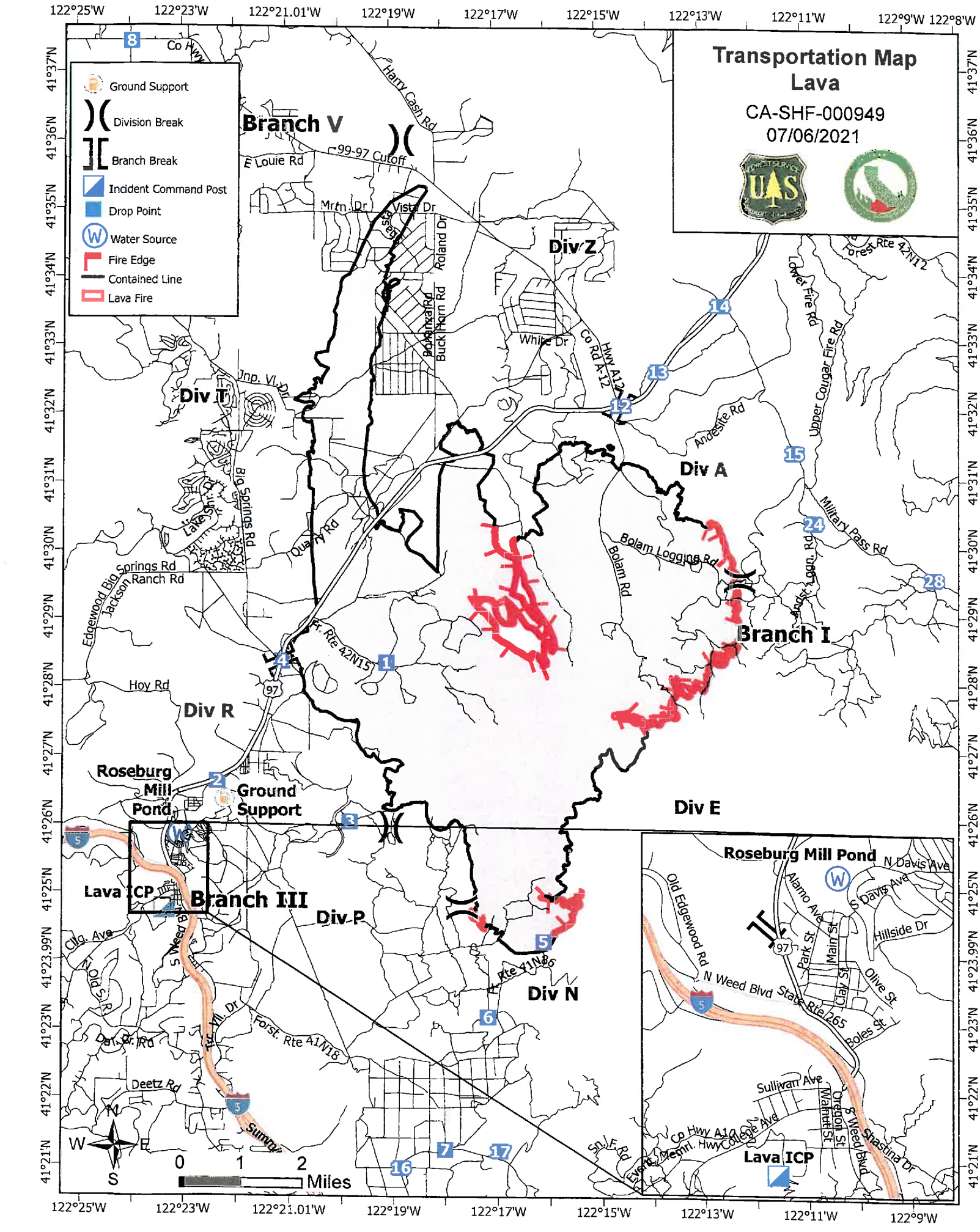
They have an extreme sense of dedication.

They have a strong need to be liked by the people around them.

They have a difficult time expressing their emotions and are more prone to experiencing delayed stress responses and the effects of cumulative stress.

Consider your own personality, some of these traits may or may not fit….

"It is better to strive for progress rather than perfection."


Transportation Map
Lava
CA-SHF-000949
07/06/2021
Ground Support
Division Break
Branch Break
Incident Command Post
Drop Point
Water Source
Fire Edge
Contained Line
Lava Fire
Branch V
Div Z
Div T
Div A
Branch I
Div R
Div E
Div P
Div N
Branch III
Roseburg Mill Pond
Ground Support
Lava ICP
Harry Cash Rd
E Louie Rd
99-97 Cutoff
Mrtn. Dr
Vista Dr
Roland Dr
Bonanza Rd
Buckhorn Rd
White Dr
Co Rd A-12
Hwy A12
Forest Rte 42N12
Lower Fire Rd
Upper Cougar Fire Rd
Andesite Rd
Jnp. Vl. Dr
Big Springs Rd
Lake Shr. Dr
Quarry Rd
Edgewood Big Springs Rd
Jackson Ranch Rd
Bolam Logging Rd
Bolam Rd
Logn. Rd
Military Pass Rd
Forst. Rte 42N15
Hoy Rd
Old S. Rd
S Weed Blvd
Clg. Ave
Del. Dr. Rd
Tuc. Vll. Dr
Forst. Rte 41N18
Deetz Rd
Forst. Rte 41N86
Sp. F. Rd
Everett Memrl. Hwy
College Ave
Co Hwy A12
Old Edgewood Rd
N Weed Blvd
State Rte 265
N Davis Ave
S Davis Ave
Alamo Ave
Park St
Main St
Clay St
Olive St
Hillside Dr
Boles St
Sullivan Ave
Walnut St
Oregon St
Shastina Dr
N
W
E
S
0
1
2
Miles

WATER SOURCE USE LOG

DATE: _____ INCIDENT: Lava Fire

DIVISION/GROUP: _____

WATER TENDER VENDER OR AGENCY ID: _____

RESOURCE ORDER REQUEST #:

WATER SOURCE LOCATION	HYDRANT	OPEN SOURCE (i.e. pond, creek)	TANK	GALLONS USED	PROPERTY OWNER/CONTACT INFORMATION

TURN INTO FINANACE EQUIPMENT TIME DAILY

Please note if you made contact with property owner and get their contact information. This document is intended to track, record, and validate the amount of water used on an incident. It is not intended to review the performance of equipment using water on an incident.

UNIT LOG CONT. (ICS 214)

1. Incident Name: LAVA FIRE	**2. Operational Period:** Date From: 7/10/21 Date To: 7/14/21 Time From: 0700 Time To: 1900

6. Activity Log

TIME	MAJOR EVENTS

7. Prepared By:

Date/Time:

NIMS IAP

UNIT LOG (ICS 214)

1. Incident Name:	2. Operational Period:				
LAVA FIRE	Date From:	7/10/21	Date To:	7/14/21	
	Time From:	0700	Time To:	1900	

3. Unit Name/Designators	4. Unit Leader (Name and ICS Position)

5. Personnel Assigned/Designators

NAME	ICS POSITION	HOME BASE

6. Activity Log (Continue on Reverse)

TIME	MAJOR EVENTS

7. Prepared By: Date/Time:

MEDICAL PLAN (ICS 206 WF)

1. Incident Name	2. Operational Period
Lava Fire	Date/Time: **07/10/2021 – 07/14/2021 0700-1900**

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	

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	Travel Time Ground	Phone	Helipad Yes	Helipad No	Address
Mercy Mt. Shasta Medical Center	Lat:	N 41° 19.117'	5 Mins	20 Mins	ER 530-926-9360	XX		914 Pine St. Mt. Shasta, CA
	Long:	W 122° 19.203'						
Fairchild Medical Center	Lat:	N 41° 43.164'	10 Mins	30 Mins	ER 530-841-6292	XX		444 Bruce St. Yreka, CA
	Long:	W 122° 38.741'						
Mercy Medical Center Level 2 Trauma STEMI / Stroke	Lat:	N 40°34.33	20 Mins	1.25 Hrs	ER 530-225-7201	XX		2175 Rosaline Ave. Redding, CA
	Long:	W 122°23.80						
Shasta Regional Medical Center	Lat:	N 40°35.160	20 Mins	1.25 Hrs	ER 530-244-5353	XX		1100 Butte St. Redding, CA
	Long:	W 122°23.262						
UC Davis Medical Center Level I Trauma / Burn	Lat:	N 38°33.293	1.75 Hrs	3.5 Hrs	ER 916-734-3790 Burn 916-734-3636	XX		2315 Stockton Blvd. Sacramento, CA
	Long:	W 121°27.317						

6. Division / Crew Emergency Pre-Plan — ***Update and discuss with assigned resources daily.***

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
	07/09/2021 1900		07/09/2021 1900

MEDICAL PLAN (ICS 206 WF)

Medical Incident Report

FOR A NON-EMERGENCY INCIDENT, WORK THROUGH CHAIN OF COMMAND TO REPORT AND TRANSPORT INJURED PERSONNEL AS NECESSARY.

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

Use the following items to communicate situation to communications/dispatch.

1. **CONTACT COMMUNICATIONS / DISPATCH** (Verify correct frequency prior to starting report)
   Ex: "Communications, Div. Alpha. Stand-by for Emergency Traffic."
2. **INCIDENT STATUS:** *Provide incident summary (including number of patients) and command structure.*
   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."

Severity of Emergency / Transport Priority	☐**RED / PRIORITY 1 Life or limb threatening injury or illness. Evacuation need is IMMEDIATE** *Ex: Unconscious, difficulty breathing, bleeding severely, 2° – 3° burns more than 4 palm sizes, heat stroke, disoriented.* ☐**YELLOW / PRIORITY 2 Serious Injury or illness. Evacuation may be DELAYED if necessary.** *Ex: Significant trauma, unable to walk, 2° – 3° burns not more than 1-3 palm sizes.* ☐**GREEN / PRIORITY 3 Minor Injury or illness. Non-Emergency transport** *Ex: Sprains, strains, minor heat-related illness.*	
Nature of Injury or Illness & Mechanism of Injury		*Brief Summary of Injury or Illness (Ex: Unconscious, Struck by Falling Tree)*
Transport Request		*Air Ambulance / Short Haul/Hoist Ground Ambulance / Other*
Patient Location		*Descriptive Location & Lat. / Long. (WGS84)*
Incident Name		*Geographic Name + "Medical" (Ex: Trout Meadow Medical)*
On-Scene Incident Commander		*Name of on-scene IC of Incident within an Incident (Ex: TFLD Jones)*
Patient Care		*Name of Care Provider (Ex: EMT Smith)*

3. INITIAL PATIENT ASSESSMENT: *Complete this section for each patient as applicable (start with the most severe patient)*

Patient Assessment: See IRPG PAGE 106

Treatment:

4. TRANSPORT PLAN:

Evacuation Location (*if different*): (*Descriptive Location (drop point, intersection, etc.) or Lat. / Long.*) Patient's ETA to Evacuation Location:

Helispot / Extraction Site Size and Hazards:

5. ADDITIONAL RESOURCES / EQUIPMENT NEEDS:

Example: Paramedic/EMT, Crews, Immobilization Devices, AED, Oxygen, Trauma Bag, IV/Fluid(s), Splints, Rope rescue, Wheeled litter, HAZMAT, Extrication

6. COMMUNICATIONS: Identify State Air/Ground EMS Frequencies and Hospital Contacts as applicable

Function	Channel Name/Number	Receive (RX)	Tone/NAC *	Transmit (TX)	Tone/NAC *
COMMAND					
AIR-TO-GRND					
TACTICAL					

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

8. ADDITIONAL INFORMATION: *Updates/Changes, et c.*

REMEMBER: **Confirm ETA's of resources ordered. Act according to your level of training. Be Alert. Keep Calm. Think Clearly. Act Decisively.**