Incident Action Plan

Trailhead Fire

CA-NEU 015200

PNKCQ6

NorCal Interagency Incident Management Team 2

NIGHT SHIFT

07/06-07/16

1800-0600

FIRE INFORMATION PHONE # 530-303-7006

Wednesday / Thursday

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name:	2. Operational Period: 1800-0600 NIGHT	
TRAILHEAD	Date/Time From: 07/06/2016 1800 WED	Date/Time To: 07/07/2016 0600 THU

3. Objective(s):

Management Objectives:

- Ensure that strategies and tactics provide for firefighter safety through the application of sound risk management principles.
- Conduct all suppression repair work in close coordination with assigned READ's and cooperators in compliance with approved Fire Suppression Repair Plan.
- Provide necessary support to ensure a smooth transition back to the local unit.

4. Operational Period Command Emphasis:

Control Objectives:

- Maintain existing containment lines and strengthen to the degree necessary.
- Implement approved components of the Fire Suppression Repair Plan.

General Situational Awareness:

- See attached weather forecast.
- See attached safety message.

5. Site Safety Plan Required? Yes ☐ No ☒

Approved Site Safety Plan(s) Located at:

6. Incident Action Plan (the items checked below are included in this Incident Action Plan):

☒ ICS 202	☐ ICS 207	Other Attachments:
☒ ICS 203	☐ ICS 208	☒ 215A
☒ ICS 204	☐ ICS 220	☐
☒ ICS 205	☒ Map/Chart	☐
☐ ICS 205A	☒ Weather Forecast/Tides/Currents	☐
☒ ICS 206		

7. Prepared by: JEFF BUSCHER	Position/Title: PSC2	Signature: PSC2
8. Approved by Incident Commander:	Name: Daren Dalrymple ICT2 (T)	Signature:
ICS 202	**IAP Page**	Date/Time:

ORGANIZATION ASSIGNMENT LIST (ICS 203)

1. Incident Name:	2. Operational Period: 1800-0600 NIGHT	
TRAILHEAD	Date/Time From: 07/06/2016 1800 WED	Date/Time To: 07/07/2016 0600 THU

3. Incident Commander(s) and Command Staff:	
IC	RICK YOUNG / BRIAN ESTES/ DAREN DALRYMPLE (T)
DEPUTY	JOE MOLHOEK
SAFETY OFFICER	STEVE DAVIS TERRY O'CONNELL SHELBY CHARLEY
INFORMATION OFFICER	ADRIENNE FREEMAN / COREY WILFORD
LIAISON OFFICER	TIM FIKE

4. Agency/Organization Representative(s):	
Agency/Organization	**Name**
AGENCY ADMIN	LAURENCE CRABTREE / MIKE KASLIN GEORGE MORRIS III
AGENCY ADMIN REP	PATRICIA TRIMBLE
LEAD RESOURCE ADVISOR	JOHN JUE JENNIFER HOUSE
CAL OES	GARY HUMPHREY R4
LINE OFFICER AEU	BRIAN ESTES
LINE OFFICER NEU	
CDCR AGENCY REP	LT MIKE HILL 209 639 8627
EL DORADO CNTY LAW BRANCH	TODD CRAWFORD

5. Planning Section:	
CHIEF	JEFF BUSCHER JOHN OWEN (T)
DEPUTY	PATRICK FARRELL
RESOURCES UNIT	DUANE MILLER / ROBERTA LIM / MICHAEL DUNKEL (T)
SITUATION UNIT	MATT BROWN KEITH FLOOD / JOHN MOHOFF (T)
DOCUMENTATION UNIT	JEFF DEARDORFF
DEMOBILIZATION UNIT	DAN BAGGAO
FIRE BEHAVIOR ANALYST	KEN LARSON TERESA RIESENHUBER (T)
TRAINING SPECIALIST	BRAD SMITH
GIS SPECIALIST	MARK GRUPE / MELANIE KERR STEVE WALTERSHIED (T)
COMPUTER SPECIALIST	SHANE NEAL / ZACH SOHL
INCIDENT METEOROLOGIST	MIKE SMITH
STATUS CHECK-IN	JORDAN WEBER / EAMON ENGBER (T)

6. Logistics Section:	
CHIEF	JACK COSTELLO / DUSTIN MARTIN
DEPUTY	AARON LOWE
SUPPLY UNIT	DAVE ALICEA / KEN KUMPE (T)
FACILITIES UNIT	RIC CROWTHER ROBIN DAVIS (T)
GROUND SUPPORT UNIT	JOHN FELL / HARRY ZABEL
COMMUNICATIONS UNIT	DON STONER
MEDICAL UNIT	PAT YOUNG RICH LUCIUS (T)
FOOD UNIT	BECKY BAKER / KEVIN BROWNING

7. Operations Section:		
DAY OPS SECTION CHIEF	ERIC PETTERSON	
NIGHT OPS SECTION CHIEF	DUSTAN MUELLER	
PLANNING OPS	JASON WITHROW (T)	
OPS SECTION CHIEF	DAN GEORGE	
DIVISION/GROUP	A	CHARLIE HARRISON (STCR)
DIVISION/GROUP	L / P	JOHN GOSS
DIVISION/GROUP	T / X / Z	HEATHER MCRAE

7b. Air Operations Branch:	
AIR OPS BRANCH DIRECTOR	STACI DICKSON DOUG MAROLF (T)
AIR SUPPORT SUPERVISOR	

8. Finance/Administration Section:	
CHIEF	BETH LOPEZ DEBBIE PARLIN (T)
TIME UNIT	PENNY PORTLOCK
COMPENSATION UNIT	TINA KENNEDY
COST UNIT	SAM RAPPAHAHN
EQUIPMENT TIME	FERN SHEPHERD

9. Prepared By:	Name: MICHAEL DUNKEL	Position/Title: RESL (T)	Signature:
ICS 203	IAP Page	Date/Time: 07/06/2016 0842	

INCIDENT Weather Forecast

FORECAST NO: 11 **NAME OF FIRE:** Trailhead

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

SHIFT DATE: July 6/7, 2016 **SIGNED: Mike Smith** Mike Smith

Incident Meteorologist

TIME AND DATE FORECAST ISSUED: July 6, 1200

WEATHER DISCUSSION: A very weak upper level high pressure ridge will move quickly across northern California during the night bringing stable and calm conditions. Overall, little change is expected in minimum temperatures or humidity recovery. This highest humidity values occurred around midnight last night and this is likely to occur again tonight. Light gradient winds are expected tonight under the ridge so winds will be terrain driven with transitions occurring around 2100. Nighttime inversions are likely to begin forming at this time. Thursday should be fairly similar to Wednesday with similar temperatures and humidity. Winds above the fire are generally light so slope winds will continue to be terrain driven. Another low pressure system is forecast to drop out of the Gulf of Alaska on Friday. This system will bring a more significant cooling with higher RH values than seen so far on this fire. The system is forecast to pass through Norcal over the weekend. Precipitation is not expected in the fire area but clouds and breezy south winds will accompany the more moderate temperature and humidity conditions.

WEATHER FORECAST:

WEATHER: Fair skies.

TEMPERATURES: Minimum temperatures 57-63.

HUMIDITY: Maximum RH recovery 56% ridgetops to 70% canyon bottoms. Highest humidity around midnight then lowering slightly through the early morning hours.

20 FT WINDS:

RIDGETOP - Southwest 2-5 gusts to 8 mph through about 2100 then becoming southeast 1-4 gusts to 8 mph.

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

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

OUTLOOK For Thursday: Mostly Sunny skies. Max temps 84-90. Minimum RH 21-27%. Lowest RH in the early afternoon. Ridge winds southeast 1-5 gusts to 8 mph becoming southwest 3-5 mph gust to 8 mph after about 1000. Gusts to 12 mph in the early afternoon. Slope winds downslope to downcanyon 1-4 gusts to 7 mph becoming upslope to upcanyon 2-5 mph after about 1000. Gusts to 10 mph in the early afternoon.

OUTLOOK FOR Friday: Mostly Sunny skies in the morning with increasing high clouds in the afternoon. Max temps 81-87. Morning Min Temps 56-62. Minimum RH 21-27%. Morning Max RH recovery 58-72%. Ridge winds southeast 1-5 gusts to 8 mph becoming southwest 3-6 gust to 9 mph after about 1000. Gusts to 12 mph in the early afternoon. Slope winds downslope to downcanyon 1-4 gusts to 7 mph becoming upslope to upcanyon 2-5 mph after about 1000. Gusts to 10 mph in the early afternoon.

EXTRA INFORMATION: Sunset tonight: 8:32 pm Sunrise Thursday 5:45 pm Day length 14 hr 46 min

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 14	**TYPE OF FIRE:** Wildland Fire
FIRE NAME: Trailhead Fire	**OPERATIONAL PERIOD:** July 6-7, 2016 Night Shift 1800 – 0600
DATE ISSUED: July 6, 2016	**TIME ISSUED:** 1045
UNIT: Eldorado NF, Georgetown R.D. & NEU (Cal-Fire)	**SIGNED:** /s/ *Teresa Riesenhuber*, FBAN-T

INPUTS

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

Discussion: A very weak upper level high pressure ridge will move quickly across northern California during the night brining stable and calm conditions. Little change is expected in min. temperatures and humidity recovery.

Weather: Fair skies. Inversions settling in after 2100 hrs.
Temp: 57-63° **RH:** Ridgetops 56% and valleys 70%
Winds (eye level): Slope/Valley downslope/downcanyon < 2 mph gusts to 4 mph; Ridgetops SE < 2 mph gusts to 4
10 hr fuels: 5% **1000 hr fuels:** 10% **Live Fuel Moisture:** 100%

FIRE BEHAVIOR

GENERAL

Most fire activity will take place during the daylight hours. Should anything spot from Division Z to A side of the American River, there is potential for short upslope runs through brush (20-40 ch/hr) and timber (5-15 ch/hr) with flame lengths 5-15 feet—with occasional short duration torching and spotting up to ¼ mile.

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

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

Rate of Spread (Head Fire) Open Timber: < 2 ch/hr Closed Timber w/ Understory: 3-11 ch/hr Brush: 10-30 ch/hr
Flame lengths (Head Fire) Open Timber: 0-1 foot Closed Timber w/ Understory: 4-7 feet Brush: 7-12 feet
Backing/Flanking Worst Case: Rate of Spread < 2 ch/hr Flame Lengths < 4 feet
POI: 20-30% **Spotting Potential:** less than 1/10 mile
Local Fire Danger: ENF Actual 7/5 ERC = 76 BI = 55

SPECIFIC FIRE BEHAVIOR

Division A, Z: The main fire will still be backing and flanking into the American River during the daylight hours. Should fire cross the American River from Division Z during the day, fire activity will increase with the potential for upslope or lateral runs where slope and wind align.

After dark, with the humidity and fuel types, the fire will lay down with little spread. Backing fire near the river in Division Z will be less than about 20 *feet* per hour with flame lengths about 2-4 *inches*, probability of ignition less than 20% and spotting potential less than 1/10 mile.

AIR OPERATIONS

Becoming stable with inversions settling in after 2100. Smokey skies causing reduced visibility in the morning until the inversions lift. Sunset: 20:32 Sunrise (07/06): 05:45

SAFETY

Unidentified or unknown mine shafts are a hazard for mop-up activities. Be on the lookout for unusual smoke colors and stay away. Unknown burning materials from gold mining operations could cause respiratory and other physical ailments. Report unusual or suspicious areas to your supervisor.

Division/Group Assignment List (ICS 204 WF)

1. Incident Name:		3.	
TRAILHEAD		Branch:	Division/Group: A
2. Operational Period:	1800-0600 NIGHT		
Date/Time From: 07/06/2016 1800 WED	Date/Time To: 07/07/2016 0600 THU		

4. Operations Personnel

OPERATIONS CHIEF	DUSTAN MUELLER	AIR OPERATIONS BRANCH DIRECTOR	STACI DICKSON
STEN	TOM LUBAS		

5. Resources Assigned this Period

Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
HC1 9225G C-6	07/11	CHARLIE HARRISON		ON DIVS/	

6. Control Operations/Work Assignments:

- Patrol and mop-up where safe to do so.

7. Special Instructions:

- Backhaul any equipment not needed.

8. Division/Group Communication Summary

Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	168.1000 N	123.0	170.4500 N	123.0	A
TACTICAL	6	166.7250 N	123.0	166.7250 N	123.0	A
AIR TO GROUND CMD	13	166.9125 N		166.9125 N		A
AIR TO GROUND TAC	14	169.2875 N		169.2875 N		A

9. Prepared By (Resource Unit Leader)	Approved By (Planning Section Chief)	Date	Time
ROBERTA LIM Roberta Lim	JEFF BUSCHER	07/06/2016	0842

Division/Group Assignment List (ICS 204 WF)

1. Incident Name:		3.	
TRAILHEAD		Branch:	Division/Group: L / P
2. Operational Period: 1800-0600 NIGHT			
Date/Time From: 07/06/2016 1800 WED	Date/Time To: 07/07/2016 0600 THU		

4. Operations Personnel

OPERATIONS CHIEF	DUSTAN MUELLER	BRANCH DIRECTOR	
DIVISION/GROUP SUPERVISOR	JOHN GOSS	AIR OPS BRANCH DIRECTOR	STACI DICKSON

5. Resources Assigned this Period

Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
ENG3 4660C E-10009	07/08	ZACK STOCKDALE	27	DP 61/1900	0600/
WT1 GEORGETOWN E-40	07/11	WESTWOOD	1	DP 61/1900	0600/
FEMP O-10021	07/15	ANDREW ESTRADA	1	DP 61/1900	0600/
FEMT O-10024	07/15	MICHAEL SHEPHERD	1	DP 61/1900	0600/

6. Control Operations/Work Assignments:

- Patrol and mop-up where safe to do so.

7. Special Instructions:

- Backhaul any equipment not needed.
- Draft only from approved water sources; maps with approved sources available from DIVS.

8. Division/Group Communication Summary

Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	168.1000 N	123.0	170.4500 N	123.0	A
TACTICAL	12	166.5500 N	123.0	166.5500 N	123.0	A
AIR TO GROUND CMD	13	166.9125 N		166.9125 N		A
AIR TO GROUND TAC	14	169.2875 N		169.2875 N		A

9. Prepared By (Resource Unit Leader)	Approved By (Planning Section Chief)	Date	Time
ROBERTA LIM	JEFF BUSCHER BC2	07/06/2016	0842

Division/Group Assignment List (ICS 204 WF)

1. Incident Name:	3.	
TRAILHEAD	Branch:	Division/Group: T / X / Z
2. Operational Period: 1800-0600 NIGHT		
Date/Time From: 07/06/2016 1800 WED	Date/Time To: 07/07/2016 0600 THU	

4. Operations Personnel

OPERATIONS CHIEF	DUSTAN MUELLER	**BRANCH DIRECTOR**	
DIVISION/GROUP SUPERVISOR	HEATHER MCRAE ISAAC FLATTLEY (T)	**AIR OPS BRANCH DIRECTOR**	STACI DICKSON

5. Resources Assigned this Period

Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
ENG3 ST 5780C E-10013	07/14	KYLE HUMPHREY	28	DP 42/1900	0600/
ENG3 3233C E-10067	07/17	LEIF LARSON	5	DP 42/1900	0600/
WT1 FLOODGATE E-135	07/13	JUAN PALACIOS	1	DP 42/1900	0600/
WT1 TEHAMA E-131	07/13	HEATHER ALEXANDER	1	DP 42/1900	0600/
SOF2 O-10061	07/15	JASON JONES	1	DP 42/1900	0600/
TFLD O-93	07/15	DAVID URRUTIA	1	DP 42/1900	0600/
TFLD (T) O-10099	07/17	ORLANDO GERAO	1	DP 42/1900	0600/
FEMP O-158	07/15	ANDY OBERG	1	DP 42/1900	0600/
FEMT O-163	07/15	BRENT BICKLEY	1	DP 42/1900	0600/
FEMP O-20087	07/17	ANTHONY BALBIANI	1	DP 42/1900	0600/
FEMT O-20086	07/17	GAGE SCHLICE	1	DP 42/1900	0600/

6. Control Operations/Work Assignments:

- Patrol and mop-up where necessary and safe to do so.

7. Special Instructions:

- Backhaul any equipment not needed.
- Draft only from approved water sources; maps with approved sources available from DIVS.

8. Division/Group Communication Summary

Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	168.1000 N	123.0	170.4500 N	123.0	A
TACTICAL	10	154.2875 N	156.7	154.2875 N	156.7	A
AIR TO GROUND CMD	13	166.9125 N		166.9125 N		A
AIR TO GROUND TAC	14	169.2875 N		169.2875 N		A

9. Prepared By (Resource Unit Leader)	Approved By (Planning Section Chief)	Date	Time
ROBERTA LIM Roberta Lim	JEFF BUSCHER Jeff Buscher PSC2	07/06/2016	0842

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

DIV	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS / WARNINGS / REMEDIES
ALL	**DANGER TREES**	• Follow "Hazard Tree Safety" guidelines, IRPG pages 22. • Post lookouts, or use a spotter in mop-up areas with personnel. • Don't park vehicles or take breaks in high concentrations of hazard trees. • Establish trigger points for disengagement during high wind events".
ALL	**TRAFFIC & DRIVING**	• Practice "Defensive Driving" techniques. • Use spotters when backing. • Always use headlights. • Use warning lights when working on roads or traveling in smoke. • Observe posted speed limits. • Watch for logging trucks on Hwy 49 and Wentworth Road.
ALL	**MOP UP**	• Conduct thorough briefing for all personnel (inside rear cover IRPG). • Use all required PPE, including eye protection. • Maintain proper spacing and overhead clearance. • Be alert for stump holes and root cavities. • Minimize exposure to smoke, and rotate personnel into clean air when practical. • Evaluate unburned islands/Increase situational awareness.
ALL	**STEEP TERRAIN & ROLLING DEBRIS**	• Maintain 8'-10' spacing when working & walking. • Don't work above any personnel. • Evaluate necessity to send personnel in areas with limited access.
ALL	**SUPPRESSION REPAIR**	• Conduct thorough briefing for all personnel (IRPG Inside back cover). • Use caution around heavy equipment. • Use all required PPE. Including hearing protection around equipment. • Maintain adequate spacing. • Establish line of communication with equipment operators.
ALL	**SPOT FIRES**	• Size up prior to engagement. • Watch for multiple spots. • Ensure LCES is in place.
ALL	**HEAT RELATED ILLNESS (HRI) & DEHYDRATION**	• Drink 2 to 1 water to sports drinks. • Take Frequent breaks, minimum of 10 minutes every hour. • Recognize symptoms of HEAT RELATED ILLNESS which include Lack of energy, Headaches, dizziness, lack of rest, no hunger, poor eating habits, hot skin, and lack of sweating
ALL	**HEAVY EQUIPMENT OPERATIONS**	• Ensure communications are established with operators. • Use hand signals if other communications are unavailable. • Maintain a 50'-100' exclusion area around equipment. • Use a spotter when backing.
ALL	**MINE SHAFTS, & ADITS,**	• Be alert for mine shafts, adits, etc. in fire area. They may not be identified on maps. • If found, flag area, notify all line personnel, DIVS, OPSC, & SOFR, keep personnel out of area.
DIV T ,P, X	**HIGH VOLTAGE POWER LINES**	• Smoke can conduct electricity; stay 150' clear of lines / towers in heavy smoke. • Do not operate heavy equipment under power lines. • Do not park under power lines. • Watch for fallen power lines, stay 200' away, notify your supervisor • Follow power line safety guide in the IRPG page 24

INCIDENT NAME: **Trailhead** **ICS 215a**	DATE PREPARED: **July 6, 2016** TIME PREPARED: **0900 HOURS**	OPERATIONAL PERIOD **Night Shift 07/06/16** **1800-0600** Prepared by T. OConnell, S ,Davis, J. Washington (T).

Lookouts Communications Escape Routes Safety Zones	**Trailhead** **Operation Period: 07/06/2016 Night 1800-0600**
	SAFETY MESSAGE

FOCUS YOUR ATTENTION ON

- **Driving safely**: Getting to and from the work assignment may be one of the more hazardous activities on this incident.
- **Identifying Hazards**: Size up the work area to identify all potential and existing hazards associated with the environment and assignment.
- **Mitigate Hazards**: Remove hazards or avoid them. Utilize hazard control measures to reduce risk.
- **Use of PPE**: Please ensure the appropriate PPE is in use to protect from the hazards found in your work area.

MAJOR HAZARDS AND RISKS

STEEP TERRAIN FATIGUE MOP-UP	ROLLING MATERIAL DEHYDRATION BUCKET DROPS	HEAVY EQUIPMENT HAZARD TREES COMPLACENCY

Be sure all elements of your safety plan are in place prior to engagement

. Driving Rules

- Keep your seat belt on!
- Keep your eyes on the road!
- Keep your speed down!
- 15 MPH maximum off pavement
- Downhill traffic yields to uphill traffic
- Reduce speed on the narrow sections of the road and on turns with poor sight lines
- Park well off of the road

Working with Heavy Equipment

- When working around heavy equipment stay at least 100 ft. in front and 50 ft. behind the equipment. In timber, distances should be 2 ½ times the canopy height.
- Never approach equipment until you have eye contact with the operator, all implements have been lowered to the ground, and equipment is idled down.
- Establish visual and radio communications methods prior to engaging.
- Communicate all hazards to the operator.
- Equipment operators have difficulty seeing ground personnel; take responsibility for your own safety and all those around you.

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

MEDICAL PLAN

1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED	4. OPERATIONAL PERIOD
Trailhead Fire	**07/06/2016**	**1000**	**1800 to 0600 7/06 to 7/7, 2016**

5. INCIDENT MEDICAL AID STATIONS

MEDICAL AID STATIONS	LOCATION	PARAMEDICS YES	PARAMEDICS NO
Medical Unit	ICP	XX	
Frontline Medical	ICP	XX	
FEMP Estrada and FEMT Shepherd	Division "L/P"	XX	
FEMT Bickley and FEMP Oberg	Division "T/X/Z"	XX	
FEMP Balbiani and FEMT Schlice	Division "T/X/Z"	XX	
REM Team 1	Base Camp contact Comms Unit	XX	

6. TRANSPORTATION

A. AIR RESOURCES

NAME	LOCATION	PHONE	PARAMEDICS YES	PARAMEDICS NO
CalStar Air Ambulance (Day/Night)	Auburn, Ca.	Comms Unit	XX	
REACH Air Ambulance (Day/Night)	Lincoln, Ca.	Comms Unit	XX	
C.H.P. (hoist capable 165 feet, Day/Night Only)	Auburn, Ca.	Comms Unit	XX	

B. INCIDENT AMBULANCES

NAME	LOCATION	PARAMEDICS YES	PARAMEDICS NO
El Dorado County 249 Branch I	I.C.P.	XX	

7. HOSPITALS

NAME	ADDRESS	TRAVEL TIME AIR	TRAVEL TIME GRND	PHONE	HELIPAD YES	HELIPAD NO	BURN CENTER YES	BURN CENTER NO
Sutter Auburn Faith Hospital	11815 Education Street Auburn, Ca.	10 minutes	50 minutes	530-888-4562	XX			XX
Marshall Medical Center	1100 Marshall Way Placerville, Ca	10 minutes	40 minutes	530-626-2717	XX			XX
Sutter Roseville Medical Center Level 2 Trauma Center N 38 45.58 W 121 14.52	1 Medical Plaza Dr. Roseville, Ca.	20 minutes	1.5 hours	916-781-1811	XX			XX
U.C. Davis Medic Center Level 1 Trauma Center N 38 33.17 W 121 27.05	2015 Stockton Ave. Sacramento, Ca.	25 minutes	1 hour 45 minutes	916-734-3790 ER 916-734-3636 BU	XX		XX	

8. MEDICAL EMERGENCY PROCEDURES

IN-CAMP CARE	LINE EMERGENCIES
• Minor Injuries or illnesses	• Start of shift: notify your Div Sup of EMT's/Paramedic's and Medical gear carried by crew
• Seek Aid directly at the Frontline Medical Unit, report all injuries or illnesses to supervisor	• Crew Supervisor contacts Division with Nature of Emergency.
• Unit Open 0600 hrs to 2200 hrs	• Division Supervisor contact's Communications and declare a medical emergency on command
• Moderate to Severe Injuries or Illnesses	• Closest DIVS or designee responds to incident
• Contact Communications directly	• Closest SOFR/EMT's respond to assist w/care
• Med Unit staffed after hours for Emergencies	• Use attached Injury or Incident Comm. Protocol
	• If ambulance (ground or air) delayed designate rendezvous site and move towards it
	• Secure scene for investigation—keep a log

ICS 206 8-78	9. PREPARED BY (MEDICAL UNIT LEADER) Patrick Young MEDL	10. REVIEWED BY (SAFETY OFFICER) Steve Davis SOF-2

INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

1. Incident Name:	2. Date/Time Prepared:	3. Operational Period: 1800-0600 NIGHT	
TRAILHEAD	Date: 07/06/2016 Time: 1017	Date/Time From: 07/06/2016 1800 WED	Date/Time To: 07/07/2016 0600 THU

4. Basic Radio Channel Use:

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

5. Special Instructions:

6. Prepared By (Communications Unit Leader)	Name: D STONER	Signature: Don Stoner
ICS 205	**IAP Page**	Date/Time: 07/06/2016 1017

FINAL

READ/REAF

FLAGGING

Pink/Black Checkered = Protection

Try to avoid impact to these sensitive resources

Lime Green = Hazards

Use Caution Mine Shafts and Other Hazards

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

Room 102

Jon Jue – 916-539-8999

Jen House – 530-503-7029

Appendix A

Effective Waterbars

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

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

Dozer Line

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

Hand Line

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

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

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

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

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

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

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

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

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

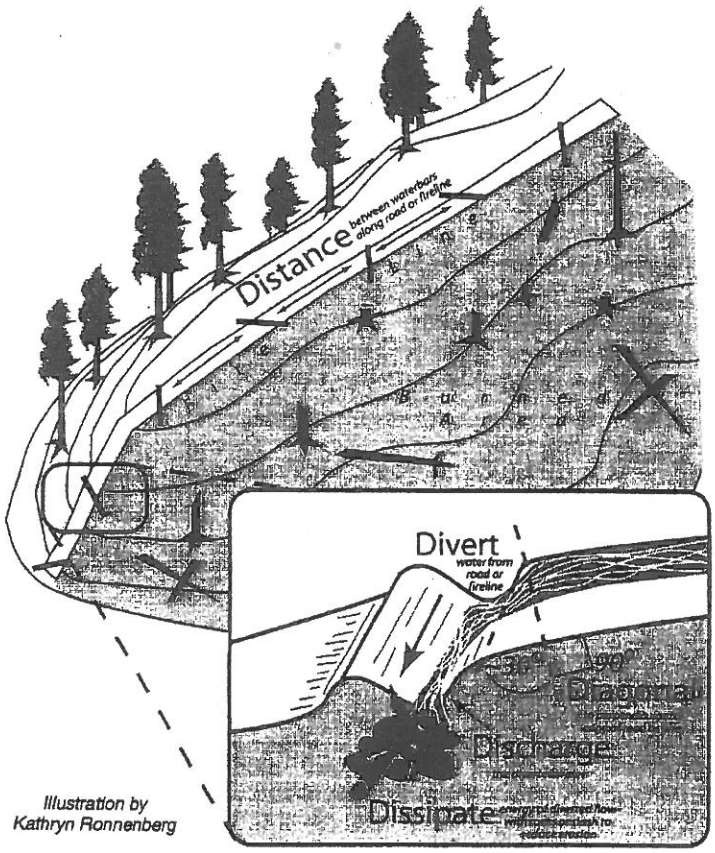


Figure 1 – Waterbar Installation

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

TRAINING SPECIALIST MESSAGE

All Training Documentation Packages must be "closed out" with the TNSP no later than
Today, July 6th by 2000 Hrs.

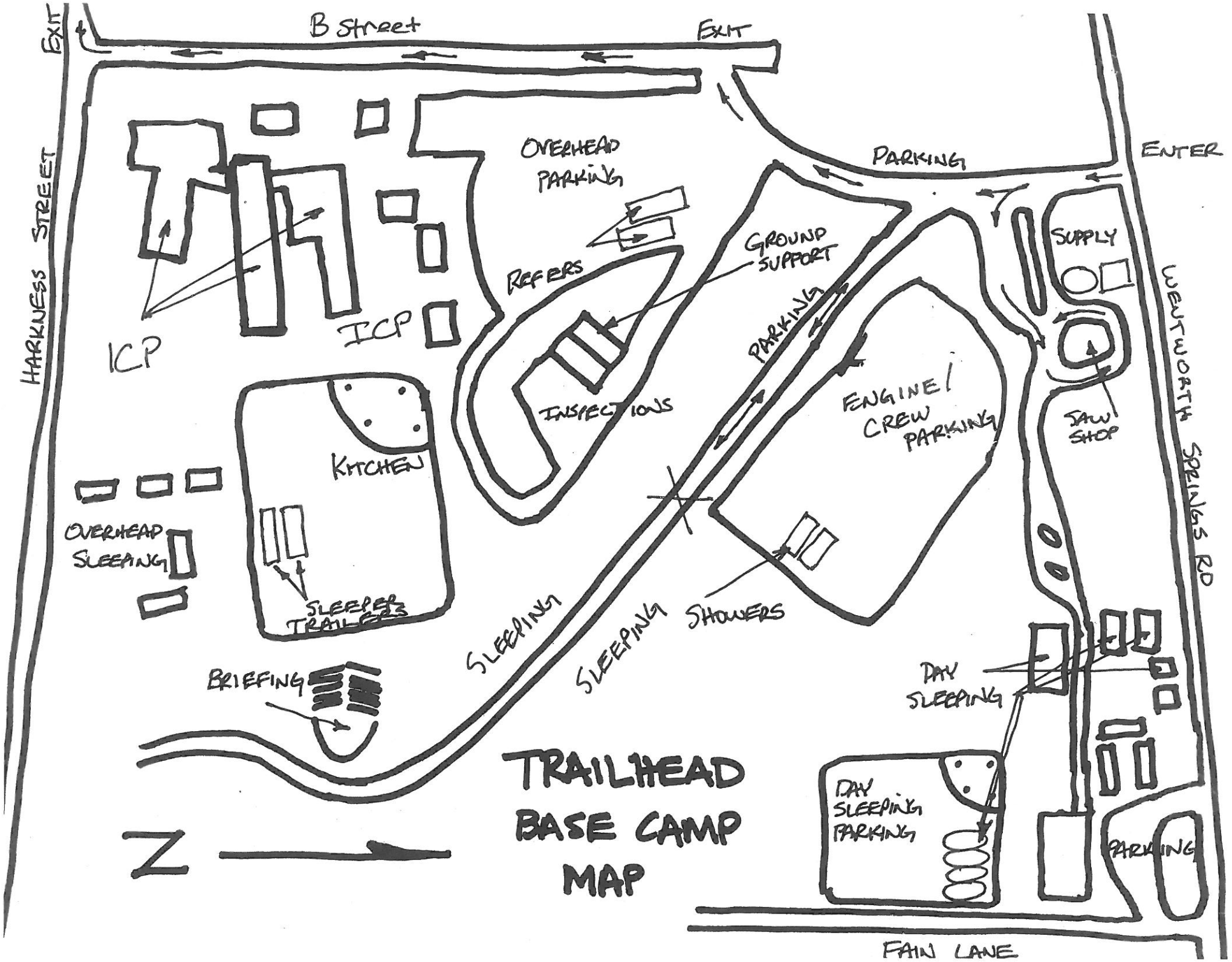
The Training Specialist can no longer accept Registration Forms to "open" new Training Documentation Packages on this incident.

Bring the Following to the Training Close-Out:

- ***Position Task Book w evaluation work completed***
- ***A completed ICS 225 Performance Evaluation***
- ***A Trainee Exit Interview Form***

Forms are available at the TNSP Desk

Brad Smith
Training Specialist


B Street
EXIT
EXIT
HARKNESS STREET
OVERHEAD PARKING
PARKING
ENTER
WENTWORTH SPRINGS RD
SUPPLY
REFERS
GROUND SUPPORT
ICP
ICP
PARKING
INSPECTIONS
ENGINE/ CREW PARKING
JAW SHOP
KITCHEN
OVERHEAD SLEEPING
SLEEPER TRAILERS
SLEEPING
SLEEPING
SHOWERS
BRIEFING
DAY SLEEPING
DAY SLEEPING PARKING
PARKING
FAIN LANE
TRAILHEAD BASE CAMP MAP

NorCal 2 Division Fireline Order Form

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

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

PLEASE ORDER BY ITEM NUMBER

#	Item 1 - IS the following: (i.e. if you need 3000' of hose & appliances, = 3 Hose Kit A's" or 3 item # 1's
1	'1,000 Foot Hose Lay' and includes:
	10ro 1½" Hose; 10ro 1" Hose; 10ea 1½" Gated Wyes; 10ea 1½" to 1" reducers; 10ea 1" nozzles

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

SPECIAL NOTES:

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 (CONTINUE ON REVERSE)

DATE/TIME	MAJOR EVENTS

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

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

1. CONTACT COMMUNICATIONS/DISPATCH

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

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

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

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

Number of Patients:	Male / Female	Age:.	Weight:.

Conscious? ☐ YES ☐**NO = MEDEVAC!**

Breathing? ☐ YES ☐ **NO = MEDEVAC!**

Mechanism of Injury: *What caused the injury?*	
Lat/Long (Datum WGS84) Ex: N 40° 42.45' x W 123° 03.24'	

4. SEVERITY OF EMERGENCY, TRANSPORT PRIORITY

SEVERITY	TRANSPORT PRIORITY
☐ **URGENT-RED Life threatening injury or illness.** *Ex: Unconscious, difficulty breathing, bleeding severely, 2° – 3° burns more than 4 palm sizes, heat stroke, disoriented.*	Ambulance or MEDEVAC helicopter. Evacuation need is **IMMEDIATE.**
☐ **PRIORITY-YELLOW Serious Injury or illness.** *Ex: Significant trauma, not able to walk, 2° – 3° burns not more than 1-2 palm sizes.*	Ambulance or consider air transport if at remote location. Evacuation may be **DELAYED.**
☐ **ROUTINE-GREEN** Not a life threatening injury or illness. *Ex: Sprains, strains, minor heat-related illness.*	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)	☐ Crew(s)	☐ SKED/Backboard/C-Collar
☐ Burn Sheet(s)	☐ Oxygen	☐ Trauma Bag
☐ Medication(s)	☐ IV/Fluid(s)	☐ Cardiac Monitor/AED

☐ Other (i.e. splints, rope rescue, wheeled litter)

8. EVACUATION LOCATION:

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

9. CONTINGENCY: