

SOUTH FIRE

Incident Action Plan

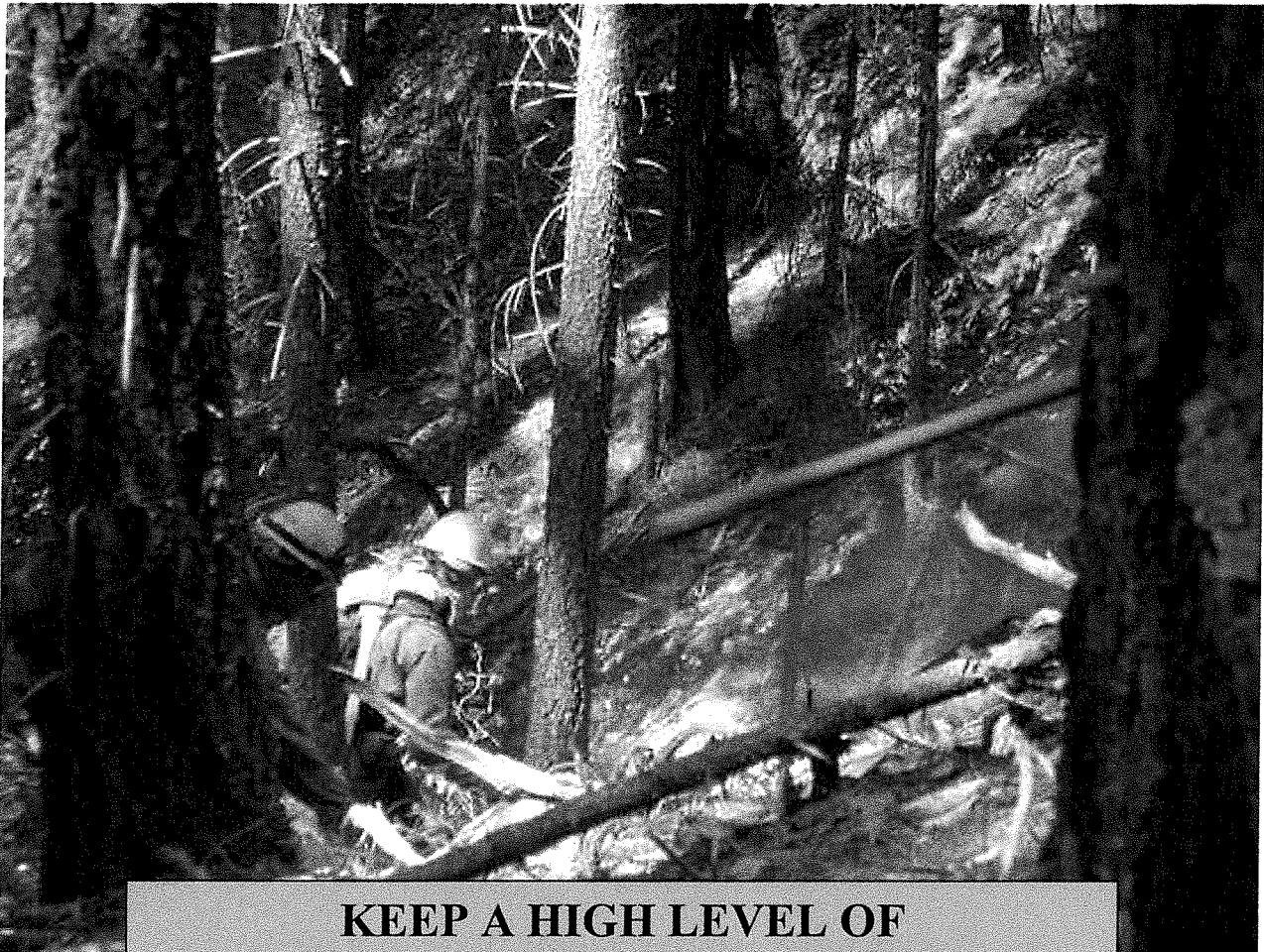
Day Shift September 9, 2019 (0700 – 1900)

Driving

- **Longer travel route increases exposure to driving hazards. Reduce Speed, Drive Defensively!**
- **Wash boarded, dusty, native surfaced roads exist. Slow down; let the dust settle for better visibility**
- **Expect the unexpected around blind corners. Stay in your lane.**

Hydration

- **Pre-hydrate, Re-hydrate! Dehydration is preventable**
- **Review mitigations listed in IAP**
- **Refer to Medical Response Plan in IAP for additional EMS care and evacuation**



**KEEP A HIGH LEVEL OF
SITUATIONAL AWARENESS**

CA-SHF-001209 P5MRD419 (0514)

**Shasta-Trinity National Forest, Harrison Gulch RD
California Interagency Incident Management Team 16**

INCIDENT OBJECTIVES	1. Incident Name South	2. Date 09/08/2019	3. Time 1930
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4. Operational Period
September 9, 2019 DAY SHIFT

CONTROL OBJECTIVES

- 1) Keep fire North of the South Fork of Cottonwood Creek and Elkhorn Creek to prevent fire spread into the state DPA.
- 2) Keep fire West of Maple Creek to prevent fire spread into the state DPA.
- 3) Keep fire South of Maple Creek and Sheep Ridge to protect private structures in Sheep Camp.
- 4) Keep fire East of Long Ridge and South Fork of Cottonwood Creek to minimize wilderness impacts.

MANAGEMENT OBJECTIVES

- 1) Provide for firefighter and public safety.
- 2) Implement strategies and tactics that commit responders to operations where and when they can be successful, and recognizing when tactics are unnecessary and/or increase exposure to fire responders and pilots.
- 3) Maintain a safe and positive working environment.
- 4) Protect private and Forest Service infrastructure and cultural and natural resources.
- 5) Limit long term impacts from suppression actions.


6. Weather Forecast for Period
• See attached weather forecast.

7. General Safety Message
• See attached safety messages.

8. Attachments (mark if attached)

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Organization List - ICS 203 | <input checked="" type="checkbox"/> Medical Plan - ICS 206 | <input checked="" type="checkbox"/> Weather |
| <input checked="" type="checkbox"/> Div. Assignment Lists - ICS 204 | <input checked="" type="checkbox"/> Incident Map | <input checked="" type="checkbox"/> ICS215a |
| <input checked="" type="checkbox"/> Communications Plan - ICS 205 | <input checked="" type="checkbox"/> ICS 220 | <input type="checkbox"/> Rehab Considerations |

9. Prepared by (Planning Section Chief)
Jeffrey Buscher

10. Approved by (Incident Commander)
Dustan Mueller 

ORGANIZATION ASSIGNMENT LIST	
1. Incident Name South	
2. Date September 8, 2019	3. Time 2000
4. Operational Period Day Shift, September 9, 2018	
Position	Name
5. Incident Commander and Staff	
Incident Commander	Dustan Mueller
Deputy	
Safety Officer	Michele Tanzi, Jeff Barnhart
Information Officer	Barbara Rebiskie, Daniel Ramey (†)
Liaison Officer	Kent Swartzlander
6. Agency Representative	
Agency Administrator	Tom Hall
Lead READ	Jessica Haggland
BLM ARGP	Jeremy Strait
Crane Mills Rep	Frank Barron
Tehama S.O. Rep	Andy Houghtby
7. Planning Section	
Chief	Jeff Buscher
Resources Unit	Marisa Williams (†)
Situation Unit	Tad Morelock
Demobilization Unit	Gary Deboi
Training	
ITSS	George Steel, Jim Gonzalez (†)
GISS	Matt Dickinson, Kent Bloomer
FBAN	
IMET	Jim Dudley
LTAN	Eric Kronner
SCKN	Jennifer Erickson
8. Logistics Section	
Chief	Richard Crowther
Supply Unit	Josh Ramey
Facilities Unit	Jeff Huhtala, Frank delCarlo
Ground Support Unit	
Equipment Manager	Mark Vardanega
Communications Unit	Richard Stone
Medical Unit	Josh Ramey
Receiving & Distribution	Fred Johnson
Food Unit	Jay Westlake
Security Manager	
9. Operations Section	
Operations – Day	Alec Lane, Robert Rice (†)
Operations - Night	
Planning Ops	Mike Minton
a. Division/Groups	
DAY	
Division/Group QQ	Billy Covert
Division/Group RR	Pete English
Division/Group WW	Adrian Villegas
Division/Group XX	Robert Hickok
Contingency	Drew Brown
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
Division/Group	
c. Air Operations Branch	
Air Operations Branch Director	Kerry Koskela
Air Support Supervisor	
10. Finance Section	
Chief	Lois Charlton
Time Unit	
Equipment Time Recorder	
Procurement	
Personnel Time Recorder	Holly Cardoza
Prepared by (Resource Unit Leader) Gary R. Deboi	



INCIDENT Weather Forecast



FORECAST NO: 1

NAME OF FIRE: South

PREDICTION FOR: Day Shift

UNIT: Shasta Trinity National Forest

SHIFT DATE: 09/09/19

SIGNED: *Danz B Dudley*

TIME AND DATE

Incident Meteorologist

FORECAST ISSUED: 1900 on 09/08/19

WEATHER DISCUSSION: Breezy westerly to northwest winds will continue through Monday night as a strong onshore flow continues. Another area of low pressure will move through the area on Tuesday bringing a slight chance of showers. Temperatures will trend cooler on Tuesday with relative humidity trending upward. High pressure will then build over the region with a warming and drying trend along with lighter winds.

Monday...

Sky/weather.....Mostly Sunny.
DWR.....0 percent.
LAL.....1.
Max temperature.....67-70 at 5000 feet and 73-78 at 2500 feet.
Min humidity.....33-36 percent.
Wind (20 ft).....Northwest winds 10 to 15 mph. Gusts to 22 mph.
Mixing height.....Increasing to around 6200 ft AGL.
Transport winds.....Northwest around 18 mph.

MONDAY NIGHT...

Sky/weather.....Partly cloudy.
DWR.....0 percent.
LAL.....1.
Min temperature.....47-52.
Max humidity.....58-62 percent.
Wind (20 ft).....West to northwest winds 10 to 13 mph with gusts to 22 mph.
Mixing height.....Decreasing to around 200 ft AGL.
Transport winds.....West around 13 mph.

TUESDAY...

Sky/weather.....Partly Cloudy with a 20 percent chance of showers after 1100.
DWR.....10 percent.
LAL.....1.
Max temperature.....65-68 at 5000 feet and 71-76 at 2500 feet.
Min humidity.....38-43 percent.
Wind (20 ft).....West winds 8 to 12 mph.
Mixing height.....Increasing to around 8500 ft AGL.
Transport winds.....West around 19 mph.

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 2	TYPE OF FIRE: Wildland Fire
FIRE NAME: South	OPERATIONAL PERIOD: 24hr 9/09 (0700-0700)
DATE ISSUED: 09/08	TIME ISSUED: 2100
UNIT: SHF	SIGNED: //Troy Velin//

INPUTS

WEATHER SUMMARY

See Weather Forecast in IAP.

OUTPUTS

FIRE BEHAVIOR:

Fire activity will be isolated to up slope runs and occasional independent torching. Short range spotting can be expected during active runs.

GENERAL:

Primary carriers of the fire consist of Chamise, Manzanita, buckbrush and Timber understory. Fuel moistures are at or near seasonal averages. The fuels in the fire area last burned in 2008.

On the South side of the South Fork of Cottonwood Creek on North facing aspects primary fuels consist of timber litter.

The South Fork of Cottonwood creek is a major drainage system and will amplify WNW winds.

Fuel moistures – Yolla Bolla (4000' elevation)

- 1000 hr – 9%. (avg is 10%)
- Ceanothus/Buckbrush – 66%. (avg is 69%)
- Manzanita – 95% (avg is 92%)

SPECIFIC:

North of the South Fork of Cottonwood Creek

The fire will continue to make uphill runs when continuous fuels are available. Due to the steepness of the drainage these uphill runs will create rollout which will start the process over. Uphill fire spread toward Nuisance ridge was interrupted by natural barriers that checked the fire up in a small section along the ridgetop.

South of the South Fork of Cottonwood Creek

The width and presence of water in the South Fork of Cottonwood creek should be a barrier to further spotting if monitored closely, and secured along the North side. The fire has crossed the creek to the south at the confluence of the Elkhorn and Sulphur creek drainages. Fire spread will be slow on this Northern aspect timber understory. Flanking ROS – 2 ch/h, FL -2'-4'

AIR OPERATIONS:

Clear except areas of smoke. No inversion expected.

SAFETY

Fuels burning high in steep drainages can dislodge heavy debris, crews working below should monitor for this.

Division/Group Assignment List (ICS 204 WF)
Controlled Unclassified Information//Basic

1. Incident Name:		3.	
SOUTH FIRE		Branch:	Division/Group:
2. Operational Period: DAY		QQ	
Date/Time From: 09/09/2019 0700 MON	Date/Time To: 09/09/2019 1900 MON		

4. Operations Personnel			
OPERATIONS CHIEF	ALEC LANE ROBERT RICE (T)	DIVISION/GROUP SUPERVISOR	BILLY COVERT
PLANNING OPS	MICHAEL MINTON	AIR ATTACK SUPERVISOR	

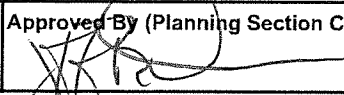
5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
WFM2 WARMSPRINGS O-16	09/21	JULIUS SENATOR	10	ICP/0700	ICP/1900
SOF2 JOHN MORLOCK O-27	09/22		1	ICP/0700	ICP/1900
EMTF JOSH BENNETT-SNOW O-31	09/21		1	ICP/0700	ICP/1900
EMPF MIKE LARKIN O-47	09/22		1	ICP/0700	ICP/1900

6. Control Operations/Work Assignments:
Scout for opportunities to keep fire north of Cottonwood Creek. Use trail systems in Wilderness Area as needed for Containment lines.

7. Special Instructions:
Scout for opportunities to keep fire north of Cottonwood Creek. Use trail systems in Wilderness Area as needed for Containment lines.

MOUNT SHASTA AMBUANCE (MEDIC 75) @ DP 110 UNLESS DIRECTED OTHERWISE.

8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	170.4500		168.1000	T-9 (100.0)	A
COMMAND	2	169.5375		164.7125	T-9 (100.0)	A
TACTICAL	4	168.6000		168.6000	T-9 (100.0)	A
AIR TO GROUND	13	159.3450		159.3450	T-16 (192.8)	A

9. Prepared By (Resource Unit Leader) MARISA WILLIAMS	Approved By (Planning Section Chief) 	Date 9/8/19	Time 2200
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Division/Group Assignment List (ICS 204 WF)
Controlled Unclassified Information//Basic

1. Incident Name:		3.	
SOUTH FIRE		Branch:	Division/Group:
2. Operational Period: DAY		RR	
Date/Time From: 09/09/2019 0700 MON	Date/Time To: 09/09/2019 1900 MON		

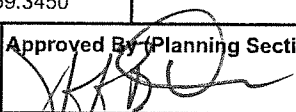
4. Operations Personnel			
OPERATIONS CHIEF	ALEC LANE ROBERT RICE (T)	DIVISION/GROUP SUPERVISOR	PETE ENGLISH
PLANNING OPS	MIKE MINTON	AIR ATTACK SUPERVISOR	

5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
TRINITY IHC				ICP/0700	ICP/1900
HC2I OHIO STATE CREW C-7				ICP/0700	ICP/1900
HC2I NOREAST INTERAGENCY #1 C-6				ICP/0700	ICP/1900
HC2 BIRRUETA REFORESTATION C-9	10/06	ANTONIO BIRRUETA	20	ICP/0700	ICP/1900
HC2 BIRRUETA REFORESTATION C-10	09/27	JOSE IBARRA	20	ICP/0700	ICP/1900
FMOD AMERICAN TIMBER AND FIRE O-69		JOE SULLIVAN	2	ICP/0700	ICP/1900
FMOD NORTH ZONE FALLERS MOD 13 O-70	09/21	LUKE HELFINSTINE	2	ICP/0700	ICP/1900
ENG3 HOOPA 9532 E-1	09/19	ROCKY COLEGROVE	4	ICP/0700	ICP/1900
ENG6 BELLA 452 E-6	09/19	RYAN BELLANCA	3	ICP/0700	ICP/1900
ENG6 VOLCANO 1 E-7	09/19		3	ICP/0700	ICP/1900
ENG6 MT ADAMS 624 E-8	09/19	CHUCK NEWBERRY	3	ICP/0700	ICP/1900
DOZ2 TOM GREGORY E-15	09/21		2	ICP/0700	ICP/1900
WTS2 T AND S DVBE 2 E-13	09/20	MICHAEL GRAVES	1	ICP/0700	ICP/1900
WTS2 MARK HODGETTS E-14	09/20		1	ICP/0700	ICP/1900
WTS3 DIETZ EQUIPMENT E-22	09/21	WAYNE CONNER	1	ICP/0700	ICP/1900
WTS2 T AND S DVBE 1 E-12	09/20	CASEY FRESHOUR	1	ICP/0700	ICP/1900
TFLD MATT DONNELLY O-19	09/21		1	ICP/0700	ICP/1900
TFLD CODY CHARTIER O-21	09/22		1	ICP/0700	ICP/1900
REAF JESSICA HAGGLAND O-65	09/21		1	ICP/0700	ICP/1900
READ KENNETH GRAVES O-63			1	ICP/0700	ICP/1900

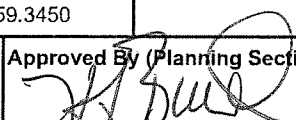
8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	170.4500		168.1000	T-9 (100.0)	A
COMMAND	2	169.5375		164.7125	T-9 (100.0)	A
TACTICAL	5	166.7250		166.7250	T-9 (100.0)	A
AIR TO GROUND	13	159.3450		159.3450	T-16 (192.8)	A

9. Prepared By (Resource Unit Leader)	Approved By (Planning Section Chief)	Date	Time
MARISA WILLIAMS		9/8/19	2200

Division/Group Assignment List (ICS 204 WF)
Controlled Unclassified Information//Basic

1. Incident Name:			3.			
SOUTH FIRE			Branch:		Division/Group:	
2. Operational Period: DAY					RR	
Date/Time From: 09/09/2019 0700 MON		Date/Time To: 09/09/2019 1900 MON				
4. Operations Personnel						
OPERATIONS CHIEF		ALEC LANE ROBERT RICE (T)		DIVISION/GROUP SUPERVISOR		PETE ENGLISH
PLANNING OPS		MIKE MINTON		AIR ATTACK SUPERVISOR		
5. Resources Assigned this Period						
Strike Team / Task Force / Resource Designator		LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
EMTF MICHAEL BRODBECK O-29		09/21		1	ICP/0700	ICP/1900
EMPF VLADIMIR TRUBIN O-48		09/22		1	ICP/0700	ICP/1900
SOF2 JEFFREY BARNHART O-37.25		09/21		1	ICP/0700	ICP/1900
6. Control Operations/Work Assignments:						
Scout trail systems and identify prep needs. Prep Tomhead Lookout area and improve Buck camp. Look for areas to go direct.						
7. Special Instructions:						
Utilize mist tactics in Wilderness area.						
MOUNT SHASTA AMBUANCE (MEDIC 75) @ DP 110 UNLESS DIRECTED OTHERWISE.						
8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	170.4500		168.1000	T-9 (100.0)	A
COMMAND	2	169.5375		164.7125	T-9 (100.0)	A
TACTICAL	5	166.7250		166.7250	T-9 (100.0)	A
AIR TO GROUND	13	159.3450		159.3450	T-16 (192.8)	A
9. Prepared By (Resource Unit Leader)			Approved By (Planning Section Chief)		Date	Time
MARISA WILLIAMS					9/8/19	2200

Division/Group Assignment List (ICS 204 WF)
Controlled Unclassified Information//Basic

1. Incident Name:			3.			
SOUTH FIRE			Branch:		Division/Group:	
2. Operational Period: DAY					WW	
Date/Time From: 09/09/2019 0700	MON	Date/Time To: 09/09/2019 1900				
4. Operations Personnel						
OPERATIONS CHIEF		ALEC LANE ROBERT RICE (T)		DIVISION/GROUP SUPERVISOR		ROBERT HICKOK
PLANNING OPS		MIKE MINTON		AIR ATTACK SUPERVISOR		
5. Resources Assigned this Period						
Strike Team / Task Force / Resource Designator		LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
HC1 WYOMING IHC C-2					ICP/0700	ICP/1900
HC1 IDAHO PANHANDLE IHC C-1					ICP/0700	ICP/1900
READ GALEN ANDERSON O-62				1	ICP/0700	ICP/1900
EMPF DANIEL ZUNIGA O-49				1	ICP/0700	ICP/1900
EMTF BRYAN HAMER O-30		09/20		1	ICP/0700	ICP/1900
SOF2 JEFFREY L BARNHART O-37.25		09/21		1	ICP/0700	ICP/1900
6. Control Operations/Work Assignments:						
Look for areas to go direct with handline construction and cold trailing.						
7. Special Instructions:						
MOUNT SHASTA AMBUANCE (MEDIC 75) @ DP 110 UNLESS DIRECTED OTHERWISE.						
8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	170.4500		168.1000	T-9 (100.0)	A
COMMAND	2	169.5375		164.7125	T-9 (100.0)	A
TACTICAL	3	168.0500		168.0500	T-9 (100.0)	A
AIR TO GROUND	13	159.3450		159.3450	T-16 (192.8)	A
9. Prepared By (Resource Unit Leader)			Approved By (Planning Section Chief)		Date	Time
					9/8/19	2200

Division/Group Assignment List (ICS 204 WF)
Controlled Unclassified Information//Basic

1. Incident Name:		3.	
SOUTH FIRE		Branch:	Division/Group:
2. Operational Period: DAY		XX	
Date/Time From: 09/09/2019 0700 MON	Date/Time To: 09/09/2019 1900 MON		

4. Operations Personnel			
OPERATIONS CHIEF	ALEC LANE ROBERT RICE (T)	DIVISION/GROUP SUPERVISOR	ADRIAN VILLEGAS
PLANNING OPS	MIKE MINTON	AIR ATTACK SUPERVISOR	


5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
TBA T2IA				ICP/0700	ICP/1900
HC1 SNAKE RIVER IHC C-4				ICP/0700	ICP/1900
HC2 PATRICK ENVIRONMENTAL C-8	09/21	PHILLIP RIDGLEY	20	ICP/0700	ICP/1900
ENG3 JACKSONVILLE 25 E-2	09/20	LUKE SCHONEBERGER	3	ICP/0700	ICP/1900
ENG3 FIREMOG 442 E-3	09/20	KEVIN STULTZ	3	ICP/0700	ICP/1900
ENG3 FIRESTORM 9908 E-4	09/17	JAMES AURENTZ	3	ICP/0700	ICP/1900
DOZ2 JACK ROSEVEAR E-16	09/20		1	ICP/0700	ICP/1900
WTS2 VALLEY TIMBER E-11	09/21	CHRIS CONRAD	1	ICP/0700	ICP/1900
TFLD KEITH ROHRS O-64			1	ICP/0700	ICP/1900
TFLD BILL SANDERS O-18	09/21		1	ICP/0700	ICP/1900
REAF JESSICA HAGGLAND O-65	09/21		1	ICP/0700	ICP/1900
READ KENNETH GRAVES O-63			1	ICP/0700	ICP/1900
READ GALEN D ANDERSON O-62			1	ICP/0700	ICP/1900
EMTF BRYAN HAMER O-30	09/21		1	ICP/0700	ICP/1900
EMPF DANIEL ZUNIGA O-49			1	ICP/0700	ICP/1900
SOF2 JEFFREY BARNHART O-37.25	09/21		1	ICP/0700	ICP/1900

8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	170.4500		168.1000	T-9 (100.0)	A
COMMAND	2	169.5375		164.7125	T-9 (100.0)	A
TACTICAL	6	166.7750		166.7750	T-9 (100.0)	A
AIR TO GROUND	13	159.3450		159.3450	T-16 (192.8)	A

9. Prepared By (Resource Unit Leader)	Approved By (Planning Section Chief)	Date	Time
MARISA WILLIAMS		9/8/19	2000

Division/Group Assignment List (ICS 204 WF)

Controlled Unclassified Information//Basic

1. Incident Name:			3.			
SOUTH FIRE			Branch:		Division/Group: XX	
2. Operational Period: DAY						
Date/Time From: 09/09/2019 0700 MON		Date/Time To: 09/09/2019 1900 MON				
4. Operations Personnel						
OPERATIONS CHIEF		ALEC LANE ROBERT RICE (T)		DIVISION/GROUP SUPERVISOR		ADRIAN VILLEGAS
PLANNING OPS		MIKE MINTON		AIR ATTACK SUPERVISOR		
5. Resources Assigned this Period						
Strike Team / Task Force / Resource Designator		LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
6. Control Operations/Work Assignments:						
Continue to prep around Hamilton Glade and Saddle Camp structures. Scout Nuisance Ridge for opportunities to construct line. Direct dozer line and handline.						
7. Special Instructions:						
MOUNT SHASTA AMBUANCE (MEDIC 75) @ DP 110 UNLESS DIRECTED OTHERWISE.						
8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	170.4500		168.1000	T-9 (100.0)	A
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AIR TO GROUND	13	159.3450		159.3450	T-16 (192.8)	A
9. Prepared By (Resource Unit Leader)			Approved By (Planning Section Chief)		Date	Time
MARISA WILLIAMS					9/8/19	2200

Division/Group Assignment List (ICS 204 WF)
Controlled Unclassified Information//Basic

1. Incident Name:		3.	
SOUTH FIRE		Branch:	Division/Group:
2. Operational Period: DAY			
Date/Time From: 09/09/2019 0700	MON	Date/Time To: 09/09/2019 1900	MON

CONTINGENCY

4. Operations Personnel			
OPERATIONS CHIEF	ALEC LANE ROBERT RICE (T)	DIVISION/GROUP SUPERVISOR	DREW BROWN
PLANNING OPS	MICHAEL MINTON	AIR ATTACK SUPERVISOR	

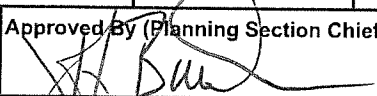
5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
ES3 S/T T3 1608 C E-10	09/22	HECTOR SANCHEZ	27	ICP/0700	ICP/1900
FOBS BRUCE ROBERT CANN O-44	09/22		1		

6. Control Operations/Work Assignments:
Establish structure protection measures in the Sheep Camp area and coordinate with Division XX.

7. Special Instructions:
Scout and Identify secondary and contingency control features north of the Nuisance Ridge. Contribute to contingency and pace planning for the incident.

MOUNT SHASTA AMBUANCE (MEDIC 75) @ DP 110 UNLESS DIRECTED OTHERWISE.

8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1	170.4500		168.1000	T-9 (100.0)	A
COMMAND	2	169.5375		164.7125	T-9 (100.0)	A
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9. Prepared By (Resource Unit Leader)	Approved By (Planning Section Chief)	Date	Time
		9/8/19	2200

INCIDENT RADIO COMMUNICATIONS PLAN			Incident Name SOUTH CA-SHF- 001209			Date/Time Prepared 09/08/19 1700		Operational Period Date/Time 09/09/2019 DAY 0700-1900	
Only frequencies listed on this 205 are authorized for use on this incident.			Hand programmers accept all responsibility for the use of unauthorized frequencies.						
Ch #	Function	Channel Name	Assignment	RX Freq	RX Tone	TX Freq	TX Tone	Mode	Remarks
1	NIFC C-2	CMD 1	SOUTH COMMAND 1	170.4500		168.1000	T-9 (100.0)	A	TOMHEAD LOOKOUT USE TONE 9 (100.0)
2	NIFC C-8	CMD 2	SOUTH COMMAND 2	169.5375		164.7125	T-9 (100.0)	A	TEPOC MT. USE TONE 9 (100.0)
3	NIFC T-1	TAC 1	DIVISION WW TACTICAL	168.0500		168.0500	T-9 (100.0)	A	DIVISION WW TACTICAL USE TONE 9 (100.0)
4	NIFC T-3	TAC 3	DIVISION QQ TACTICAL	168.6000		168.6000	T-9 (100.0)	A	DIVISION QQ TACTICAL USE TONE 9 (100.0)
5	NIFC T-4	TAC 4	DIVISION RR TACTICAL	166.7250		166.7250	T-9 (100.0)	A	DIVISION RR TACTICAL USE TONE 9 (100.0)
6	NIFC T-5	TAC 5	DIVISION XX TACTICAL	166.7750		166.7750	T-9 (100.0)	A	DIVISION XX TACTICAL USE TONE 9 (100.0)
7	NIFC T-6	TAC 6	UNASSIGNED	168.2500		168.2500	T-9 (100.0)	A	UNASSIGNED
8	SHF REPEAT	SHF-R	SHF CONTACT	171.5750		165.0125	TONE 12 OR 14	A	EMERGENCY CONTACT FOR SHF DISPATCH TONE 12 (127.3) TONE 14 (151.4)
9	CDF COMMAND 7	CDF CMD 7	CDF COMMAND 7	151.4600	T-8 (103.5)	159.3900	T-1 (110.9)	A	RED BANK COMMAND
10									
11									
12									
13	AIR TO GROUND	CDF A/G	RED BANKS AIR TO GROUND	159.3450		159.3450	T-16 (192.8)	A	USE TO CONTACT AIR ATTACK TO GET AIR RESOURCES TO SOUTH
14	AIR TO GROUND	A / G	SOUTH AIR TO GROUND TACTICAL	169.4875		169.4875		A	SOUTH FIRE AIR TO GROUND TACTICAL NO TONE
15	CALCORD	CALCORD	MEDICAL	156.0750	156.7	156.0750	T-6 (156.7)	A	MEDICAL EVAC. USE TONE 6 (156.7)
16	AIR GUARD	AIR GUARD	EMERGENCY ONLY	168.6250		168.6250	T-1 (110.9)	A	EMERGENCY ONLY
Prepared by				Incident Location					
RICK STONE COML				SOUTH ICP					

S 205 - 2007H

MODE A - ANALOG, D - DIGITAL

ICS 205 - INCIDENT RADIO COMMUNICATIONS PLAN

1. Incident Name: RED BANK Incident Channels		2. Date/Time Prepared Date: 09/08/2019 Time: 1930		3. Operational Period: Date To: 09/10/19 Time To: 0700				
4. Communications								
Ch#	Function	Name	Assigned To	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
1	COMMAND	CDF C7 T1	ALL DIVS	151.4600N	T8 - 103.5	159.3900N	T1 - 110.9	TONE 1
2	COMMAND	CDF C7 T15	ALL DIVS	151.4600N	T8 - 103.5	159.3900N	T15 - 162.2	TONE 15 - Portable Repeater
3								
4	TACTICAL	CDF T24	DIV A/B	151.3325N	T16 - 192.8	151.3325N	T16 - 192.8	
5	TACTICAL	CDF T25	DIV C/H	159.2775N	T16 - 192.8	159.2775N	T16 - 192.8	
6	TACTICAL	CDF T26	DIV J/M	159.2925N	T16 - 192.8	159.2925N	T16 - 192.8	
7	TACTICAL	CDF T27	DIV O/R/S	159.3075N	T16 - 192.8	159.3075N	T16 - 192.8	
8	TACTICAL	CDF T28	DIV U/Y	151.1825N	T16 - 192.8	151.1825N	T16 - 192.8	
9	TACTICAL	CDF T36	DIV MM/PP	151.1525N	T16 - 192.8	151.1525N	T16 - 192.8	
10	TACTICAL	CDF T37	CONTINGENCY	159.3375N	T16 - 192.8	159.3375N	T16 - 192.8	
11								
12								
13								
14	AIR TO GROUND	CDF T18	ALL DIVS	159.3450N	T16 192.8	159.3450N	T16 192.8	AIR TO GROUND
15	MEDICAL	CALCORD	ALL DIVS	156.0750N	T6 - 156.7	156.0750N	T6 - 156.7	MEDICAL COORDINATION
16	AIRGUARD	AIRGUARD	ALL DIVS	168.6250N		168.6250N	T1 - 110.9	EMERGENCY
17								
18								
19								
20	AIRGUARD	AIRGUARD	ALL DIV	168.6250N		168.6250N	T1 - 110.9	EMERGENCY
5. Special Instructions								
6. Prepared by (Communications Unit Leader): Name: Ken Parker						Signature: _____		
ICS 205 - CONTROLLED UNCLASSIFIED INFORMATION/BASIC						Date/Time: 09/08/19 1930		

MEDICAL PLAN (ICS 206 WF)

1. Incident/Project Name				2. Operational Period					
South Fire				Date/Time 9/9/19 0600-0600					
3. Ambulance Services									
Name	Location	Phone & EMS Frequency		Advanced Life Support (ALS)					
				Yes	No				
Mt Shasta Medic 75	South Incident: DP-110 Days, ICP Nights	Contact South Comm		X					
St. Elisabeth Ambulance	Red Bluff, CA	911		X					
Trinity County Ambulance	Hayfork, CA	911 or 530-623-8128		X					
4. Air Ambulance Services (COORDINATE with AIR AMBULANCES on CALCORD tone 6)									
Name		Phone		Type of Aircraft & Capability					
Kern H-407 Up to 1:15 hr eta		Contact South Comm		Day/Night Hoist Rescue, Weed, CA					
Air Guard (Night Hoist),CDF H205 (Day Hoist Only)		Contact South Comm		Red Bluff, CA					
Reach or PHI 20 min eta		911		Air Ambulance – Redding, CA Day/Night					
Coast Guard Up to 1:15 hr eta		911 or 707-839-6100		Hoist Rescue – Eureka, CA Day/Night					
CHP 20 min eta		911		ALS Hoist Rescue – Redding, CA					
5. Hospitals									
Name & Level	GPS Datum – WGS 84		Travel Time		Phone		Helipad		Address
	Degrees Decimal Minutes								
St. Elisabeth Hospital Level III trauma center	Lat:	N40° 08.91	20 min	1 hr	530-529-8000	X		2550 Sister Mary Columbia Dr., Red Bluff, CA 96080	
	Long:	W122° 13.24							
	VHF:								
Mercy Medical Center – Level II trauma	Lat:	N40°34.33	30 min	1.5 hrs	530-225-7201 (ER)	X		2175 Roseline Ave. Redding, CA 96001	
	Long:	W122° 23.80							
	VHF:								
Shasta Regional Medical Center. Level III trauma	Lat:	N40°35.08	30 min	1.5 hrs	530-244-5353 (ER)	X		1100 Butte, Redding, CA 96001	
	Long:	W122°23.25							
	VHF:								
UC Davis Level I Trauma/Burn Center	Lat:	N38°33.30	1 hr	3.5 hrs	916-734-3636 916-734-3790	X		2315 Stockton Blvd. Sacramento, CA	
	Long:	W121°27.33							
	VHF:								
6. Division / Crew Pre-plan. Update and discuss with assigned resources daily.									
Crew EMTs & Equipment									
Fireline EMTs & Location									
Adv. Life Support?									
Air Hoist site:									
Lat: / Long:									
Helispot:									
Lat: / Long:									
Alternate no-fly plan:									
7. Remote Aid Stations									
South Medical Unit– ICP R-Wild Horse Ranch 6700 Hwy 36W, Platina, CA N40° 19.02 W122° 48.00		Point of Contact:		MEDL – Josh Ramey 530-277-1213					
		EMS Responders & Capability:		Basic Life Support					
		Equipment Available on Site:		Medical supplies					
		Ambulance ETA :		Air – 25 min. Ground – 45 min.					
8. Prepared By (Medical Unit Leader)				9. Date/Time		10. Reviewed By (Safety Officer)			11. Date/Time
Josh Ramey – MEDL 530-277-1213				9/7/19 1800		Michele Tanzi			9/7/19 1800

Medical Incident Report

1. CONTACT Communications on COMMAND, DECLARE: "MEDICAL EMERGENCY"

OR "NON-EMERGENCY MEDICAL TRANSPORT"

Ex: "Communications, Div. Alpha, Stand-by for a medical emergency on Div. Alpha" (If life threatening request designated frequency be cleared for

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

Nature of Injury or Illness & Mechanism of Injury	<i>Brief Summary of Injury or Illness (Ex: Unconscious, Struck by Falling Tree)</i>
Transport Request	<i>Air Ambulance / Short-Haul/Hoist/ Ground Ambulance / Other</i>
Patient Location	<i>Descriptive Location & Lat. / Long. (WGS84,</i>
Incident Name	<i>Geographic Name + "Medical" (Ex: Trout Meadow Medical)</i>
On-Scene Incident Commander	<i>Name of on-scene IC of Incident within an Incident (Ex: TFLD Jones)</i>
Patient Care	<i>Name of Care Provider (Ex: EMT Smith)</i>

3. INITIAL PATIENT ASSESSMENT: *Complete this section for each patient. Start with most severe.*

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 RESOURCE/EQUIPMENT NEEDS:

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

6. COMMUNICATIONS:

- Run Medical Emergency on Command - Coordinate with air ambulance on CALCORD tone 6

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, etc.*

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

SOUTH FIRE INCIDENT RISK ANALYSIS (215a)
Day Shift, September 9, 2019 (0700 to 1900)

DIV	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS / WARNINGS / REMEDIES
ALL	Medical Emergencies	<p>~ Contact South Comm for Medical Emergencies, Notify Division Supervisor immediately</p> <p>~ Review, understand and discuss with your resources the Medical Plan in the IAP.</p> <p>~ Refer to the Medical Incident Report on pages 118 – 119 in 2018 IRPG for info into Communications</p> <p>~ Develop Division/Crew Pre-Plan in block #6 on the Medical Plan and fill in necessary information to assist you with an incident within an incident.</p> <p>~ Base all operational decisions and activities on these 3 questions:</p> <ol style="list-style-type: none"> 1.) What are we going to do if someone gets hurt? 2.) How will we get them out of here? 3.) How long will it take to get them to a hospital? <p>~ If the answers are insufficient, stop, re-assess and consider alternate strategies and tactics.</p> <p>~ Have Alternate plan in place when aircraft is grounded due to visibility issues.</p> <p>~ If air or ground ambulance is delayed: package and transport patient to rendezvous with incoming ambulance.</p> <p>~ Re-route EMS helicopter to rendezvous point as appropriate</p> <p>~ Review page 2 in IRPG 2018 for briefing subordinates.</p> <p>~ If Night extraction by Air Ambulance with Hoist capabilities and NVG (Night Vision Goggles) is required, the following will assist in a smooth extraction.</p> <ul style="list-style-type: none"> * <u>Minimum</u> of a 20' x 20' clearing * 3 GREEN Glow Sticks placed on edges of clearing forming a triangle to assist pilot in visual horizon. * Turn ALL headlamps and vehicle lights OFF * Communicate with Air Ambulance on CALCORD tone 6 <p>~ Be aware of Rotor Wash & its effect on Fire behavior when the extraction point is next to an active fires edge.</p> <ul style="list-style-type: none"> • If possible, MOVE patient to an area with less fire activity
ALL	Driving & Traffic	<p>~ There is NO need to be in a hurry, or to drive fast. You get paid by the hour. Drive Cautiously</p> <p>~ Practice "Defensive Driving" techniques traveling on all roads in both rural and urban settings</p> <p>~ Slowdown in limited visibility (smoky/dusty) & congested areas. Increase following distances to allow dust to settle, & to allow for reaction time lag. Use low beam headlights</p> <p>~ Honk horn to alert personnel when backing. Use spotters when available</p> <p>~ Pull over to allow oncoming traffic to pass on a narrow road base. If required to back-up at night, have the vehicle in front of you turn their headlights to "running lights" to eliminate night blindness while you back out of the way. Utilize a backer.</p> <p>~ Expect two way traffic on one lane roads. Stay on your side, and approach corners with caution</p> <p>~ Headlights ON. Manually turn on Headlights. Most vehicles have "auto" headlights</p> <p>~ NO riding in the back of pick-ups. It is against the Law.</p>
ALL	Hydration & Heat Illness	<ul style="list-style-type: none"> • Pre-hydrate, Re-hydrate! Dehydration is preventable.....Drink a minimum of 250ml/hour; (¼ of canteen) • Water Intoxication Drinking TOO much water, upsetting electrolyte balances can decrease sodium in the blood to dangerously low levels, causing mild to life-threatening problems • Drink water & Electrolyte drinks before, during, and after shifts. (2 waters to 1 sports drink). • Do NOT mix with water or dilute electrolyte drink. It must be consumed as is for the body to absorb properly. • Pace work to avoid heat injuries • Heat exhaustion is characterized by: Weakness, Extreme Fatigue, Nausea, Dizziness & Headaches, clammy skin, persistent muscle cramps, decreased urine output. <ul style="list-style-type: none"> o Cool patient as quickly as possible! o Move patient to a cooler location and provide cold water and sports drink. o Actively reduce core temperature through evaporation by fanning patient. o Remove Patient from fire line and seek medical attention o Cover head and neck with wet cloth, increase air movement. o Heat exhaustion is characterized by: Weakness, Extreme Fatigue, Nausea, Dizziness, Headaches, clammy skin, persistent muscle cramps, and decreased urine output • Refer to Medical Plan in IAP for additional EMS care and Evacuation
ALL	Rocky, Rugged Terrain	<p>~ Unforgiving terrain. Ensure you remain focused when walking.</p> <p>~ Maintain 8'-10' spacing when working & walking.</p> <ul style="list-style-type: none"> • Evaluate the necessity to send personnel in areas with limited access. Evaluate the type of resources needed to do the job if required <p>~ High Potential for lower leg injuries. Take your time when hiking in and around your work area</p>
ALL	Fire Behavior	<p>~ Provide weather forecasts/observations for all personnel assigned during Operational briefings</p> <p>~ Update field personnel via the Command Channel when significant weather changes are observed that could impact area</p> <p>~ Develop Management Action Points/Trigger Points for disengagement of resources and make them known to all. Re-assess as needed.</p> <p>~ Use "Risk Management Process" prior to engaging in suppression actions, referring to pg 1, IRPG, 2108</p> <p>~ Ensure LCES is in place before engagement of resources</p>
ALL	Hazard Trees	<p>~ Scout work area for aerial hazards prior to engagement to ensure a safe work area</p>

**SOUTH FIRE INCIDENT RISK ANALYSIS (215a)
Day Shift, September 9, 2019 (0700 to 1900)**

		<ul style="list-style-type: none"> ~ Follow "Hazard Tree Safety" guidelines, page 22, 23 in IRPG, 2018 ~ Look up, down and around for Hazard Tree indicators. Info on pg 22 IRPG, 2018 ~ 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. ~ Remember that the hazard zone extends a minimum of 2 1/2 tree heights. ~ Utilize pg 85 in the IRPG, 2018 for Procedural Felling Operations ~ No "Felling" of any tree at Night, or during High Wind events. ~ Flag off areas of concern, communicate to Division, adjoining resources, and brief relief resources until hazards have been mitigated ~ Post a "Lookout" if possible to control the area of concern
ALL	<p style="text-align: center;">Biting, Stinging Insects, & Critters (Rattle Snakes, Bees, Mosquitoes, Scorpions, Ticks, Wildlife, etc)</p>	<ul style="list-style-type: none"> • If allergic to bee stings, let your DIVS & Medic/EMT's know. • Leave the snakes alone! Snakes are in Fire Camp too! Shake your boots out, check sleeping bag and check under your tent. They like to snuggle. If found in camp, notify Logistics • Use bug spray to minimize mosquito bites. • Check yourself daily for tick bites. • Leave wildlife alone. Backhaul ALL Trash please.
<p style="text-align: center;">INCIDENT NAME SOUTH FIRE</p> <p style="text-align: center;">ICS 215a</p>		<p>DATE PREPARED: September 8, 2019</p> <p>OPERATIONAL PERIOD Day Shift 0700 - 1900</p> <p>Prepared by: Tanzi – SOF1, Barnhart – SOF2,</p>
		<p>TIME PREPARED: 1900 HOURS</p>



HAZARD MITIGATION THROUGH RISK MANAGEMENT

Operational Engagement

“Risk Management doesn’t get in the way of doing the mission – *it is the way we do the mission.*”
The Risk Management Process assists in ensuring that critical factors and risks of the fireline work environment are considered during decision making. Good risk management utilizes a five-step process:

● Step 1—Situational Awareness:

- Obtain information.
- Scout the fire.
- Identify hazards—those likely to result in a negative impact.
- Consider all aspects of current and future situations.
- Consider known historical problem areas (Apply information from the Fire Danger Pocket Card.).
- Recognize the need for action.
- Demonstrate ongoing awareness of fire assignment status.
- Note deviations.
- Attempt to determine why discrepancies exist with information before proceeding.

● Step 2—Hazard Assessment:

- Assess hazards to determine risks (e.g., fire behavior, snags, unburned fuels, work/rest).
- Use the Look Up, Down, and Around; and the Tactical Watch Outs (both located in the Incident Response Pocket Guide) to identify high-risk tactical hazards.
- Assess the impact of each hazard in terms of potential loss, cost, and mission/operational degradation based on probability and severity (probability—how likely an event will occur; severity—consequences if the event occurs). Keep in mind that increased exposure time increases probability.

● Step 3—Hazard Control:

- Determine the best approach to mitigate or control the risk from the hazards assessed.
- Establish controls (e.g., anchor point, LCES, utilize downhill checklist, limit exposure time).
- As control measures are developed, reevaluate each risk until it is reduced to a level where benefits outweigh potential costs.

● Step 4—Decision Point (decision to accept or not accept the risk(s) associated with an action):

- Consider whether controls are in place for identified hazards, whether selected tactics are based on expected fire behavior and if instructions have been given and understood.
- Make certain the decision is made at the appropriate level; if not, then elevate to a higher level.
- Reject the action if the risk is unacceptable.

● Step 5—Evaluation:

- Ensure controls are implemented and accomplished to standards.
- Supervise/evaluate effectiveness of controls and decisions. Stay on top of the situation and adjust risk controls as necessary.
- Anticipate consequences of decisions; if controls do not work, determine problem and derive a better solution.
- Adjust actions as the situation changes; maintain situational awareness at all times.
- Maintain feedback line.

Have an idea? Have feedback? Share it.

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



