South Complex

Incident Action Plan Sunday, September 6th, 2015 Day Shift, 0700 - 1900



- ✓ Warming & Drying = Higher Temps & Lower RH's
 - Hydration needs increase
 - Potential for increased Fire behavior
- ✓ Transportation & Equipment
 - Is your equipment working properly?
 - Have you completed your pre-use inspection?
 - Are you wearing appropriate PPE?
- ✓ New work location?
 - Have you scouted your work area for hazards?
 - Have the hazards been mitigated?

CA-SHF-002108, P5J0MZ, (0514)
Shasta Trinity National Forest
Northern California Incident Management Team 1

INCIDENT OBJECTIVES	1. In	cident Name	Т	2. Date	3. Time
ICS 202	SOI.	JTH COMPLEX	1	Prepared 09/05/2015	Prepared 2000
100 202	300	JIII COWIF LLX			2000
Operational Period					
09/06/2015 0700-1900					
5. General Control Objectives for the	Incide	nt (include alternatives)			
CONTROL / OPERATIONAL	OBJE	ECTIVES:			
 Keep the East flank of I South of 4N29 Ro West of the West North of Hayfork of the West Keep all other divisions lines. Continue implementing approved plan and age MANAGEMENT OBJECTIVE Provide for Firefighter a application of the risk management of the risk management work. Utilize Resource Advisor repair work. Engage in fire suppression of the risk management work. Keep public informed were suppression of the risk management work. Keep public informed were suppression of the risk management work. 	ead in Fork Creek of the fire s ncy point in an age of the fire s and the fire s and the fire s and the fire s an age of the fire s and the fire s and the fire s and the fire s and the fire s an age of the fire s and	Division W of Miners Creek South Fork Complete South Fork Complete Uppression damage olicy. Ublic safety through I ement process. d USFS personnel in epair operations that ge to natural and cult rrent and accurate fi	rep haz n id are tura ire i	air in accor ard recogni entification e cost effect il resources nformation	ition and of suppression tive.
closure to assist in miti	gating	public salety conce	ms	<u>-</u>	
Weather Forecast for Period					
See attached spot weather foreca	ast.				
7. General Safety Message					
See attached safety message.				·····	
8. A x Organization List-ICS 203	ttachm x	ents Air Ops Plan ICS-220	Ιx	Fire Weathe	r Forecast
x Division Assignment List-ICS 204		Incident Map	x	Fire Behavio	
x Communications Plan-ICS 205		Traffic Plan	X	Unit Log ICS	
x Medical Plan-ICS 206	×	Safety Message		Vicinity Map	
9. Prepared by		10. Approved	∟ Lby (Incident Com	mander)
Walter Herzog		Jay Kurth <)-	7 (50)	

	1.0000.000					
ORGANIZ	ATION ASSI	IGNMENT LIST	Ordering	Ron	Pierce, Tamara Hanna	
1. Incident Name			Facilities Unit	-	Huhtala, Richard Crowther (t)	
South Comp	olex		Ground Support Unit	Harr	y Zabel, Kristen Lark (t)	
2. Date	JICK	3. Time	Communications Unit	Phil	Shafer, Harold Reed (t)	
September 5, 2015		1630	Medical Unit	. Josh	n Ramey	
4. Operational Period	• *************************************		Receiving &			
Day Shift Septembe	er 6, 2015		Distribution	ļ		
Position		Name	Security Manager		e Turner	
5. Incident Co	ommander (and Staff	Food Unit	 	Westlake, Mark McGuinness (t)	
Incident Commander	Jay Kurth		Equipment Manager		na Lake	
Deputy	Kent Swart	zlander	9 Day Operations	- Q	perations Section Alec Lane	
Incident Commander (t)	Curtis Coot	ts (t)	Night Operations		Alec Lulle	
Safety Officer		ınzi, Jeff Bamhart, Jim	Planning Ops		Curt Lindstrand	
	Mackenson			ı – sau	Day Established	
Information Officer	Barbara Re			/L/M	Randy Jennings, Ray Dombroski (†)	
Liaison Officer	Kathy Hard	dy		O/Q	Bret Davidson	
Human Resources	V Programme and the state of th		Division/Group	S/Z/T	Dale Schmidt	
6. Agency Re	presentativ		Division/Group	W/X	Unstaffed	
Agency Administrator	Dave Mye	ers	Division/Group	Y	Nick Bunch	
Agency Admin Rep	Tom Hall, F	Randall Walker	Division/Group			
Shasta NF Duty Chief	Ben Newb	ourn	Division/Group			
Lead Resource Advisor	Matt Scott	t, Lois Shoemaker	Division/Group			
Trinity County Sheriff	Mike Rist		b. Division/Gro	oups	Night state of the	
Trinity County Advisor	Larry Winte	er	Division/Group	•		
PG&E	Joe Little		Division/Group			
American Red Cross	Kendra Po	spychalla	Division/Group			
Hyampom Volunteer FD	Joe Watkir	ns	Division/Group			
CHP	Mike Arpai		Division/Group	-		
Trinity PUD	Rory Barre	†	c. Air Opero	noite:	s Branch	
CCC	Steven Do	nnelly	Air Operations Branch Dire	ector	Glenn Dietz	
7. Planning S	ection		Air Attack Supervisor			
Chief	Walter Herz	og	Air Support Supervisor		·	
Deputy			Helicopter Coordinator			
Resources / Demob /	Rita Mustati	ia, Tanya Costello (t))	Air Tanker Coordinator	o e e e e e e e e e e e e e e e e e e e		
Documentation / Status- Check-in Unit			10.	Finar	nce Section	
Situation Unit	Tim Ritchey		Chief		Lois Charlton	
Training	Dominic Pa		Time Unit			
CTSP	George Ste	el	Cost Unit		Kenny Lucien	
GISS		son, Elizabeth Hale, Shawn	Compensation/Claims Un	it	Debbie McIntosh	
	Thorton		Equipment Time		Lou Ann Charbonnier	
FBAN	John Wood		PTRC		Alexandra Behr	
IMET	Phil Manuel	I	Prepared by (Resource U		der)	
SCKN	Ronnee –Su	ue Helzner	Tanya Costello Approved by (Planning Se		Chiefl	
8. Logistics	Section		Walter Herzog		Cincij	
		Richard Sheets (t)	YTUNEI HEIZOG	<u> </u>		
Deputy						
			41			

DIVISION ASSIGNMENT	r list		1. Branch				2. Division	/Group H/L/M 1	OF 2
3. Incident Name			4. Operational Pe	riod		j	<u></u>	11/6/141 1	<u> </u>
	ADLEV		Date: September 6, 2015 Time: 0700 - 1900						
SOUTH COM		<u> </u>		. a.	1.1 1.1 1.1 1.1				11.55
5.		Ор	erations Person						
Operations Chief	ALEC LANE		Division/Grou	o Superv	risor R	RANDY	JENNING	S, RAY DOMBI	ROSKI [1]
Planning Ops.	CURT LINDSTRAND		Air Ops. Brand	h		SLENN	DIETZ		
6.	Re	sources Assigne	d this Pe	eriod					
Cirlle Terry (Tests Cores / Bessures Designator			eader	LWD	Numbe Person		Trans. Needed	Drop Off PT./Time	Pick Up PT./Time
HC- T2IA FIRESTORM #1	5 C-114	DUAN	NE FIELDS	9/9	20		N	0700	1900
HC-T2IA GFP ENT. C-11	3	JASON	JASON CAMPBELL		20		N	0700	1900
ENG S/T – T3 – 3660C C	:A-PNF E-338	COTTINGH	AM/ LONG (t)	9/13	27		N	0700	1900
ENG – T3 – CA SHF # 37	71 E-336	KEVIN	KEVIN MOGLIA		5		N	0700	1900
ENG - T3 - HYM 3331 E-:	224	MIKE BYRD		9/29	2		N	0700	1900
ENG - T6 - MOUNT AD	AMS E-330	CHARLES	NEWDERLY	9/12	3		N	0700	1900
WT-T2 #21 E-293		DENNIS	FRANKLIN	9/9	1		N	0700	1900
WT SIERRA WATER E-23	39	ROBER'	T DARLING	9/8	1		N	0700	1900
DOZ T2 HAYS EQUIP. E-		CHARLIE (CIGANOVICH	9/10	1		N	0700	1900
EXCAV-T3-WILCOX CC		RICK	WILCOX	9/12	. 1		N	0700	1900
EXCAV-T2-KIRACK E-32		PC	OTTER	9/10	1		N	0700	1900
CHIPPER FIRESTORM E-	-309	TYSC	N LOWE	9/7	1		N	0700	1900
TFLD O-775		CASE	Y LOVELL	9/15	1		Ν	0700	1900
TFLD (†) O-776		JESSE	LOEFFLER	9/15	1		N	0700	1900
TFLD O-770		DAV	E BAKAS	9/17	1		N	0700	1900

Mop up as needed to maintain containment.

Continue to patrol and secure lines.

Continue suppression repair on contingency lines and control lines as well as assess and repair Drop Points and roads in coordination with READS.

Special Instructions:

Identify resources available to respond for initial attack.

Utilize water use log sheet and turn into DIVS at end of shift.

Coordinate with ground support to backhaul any miscellaneous equipment and trash.

All suppression repair activities will be coordinated by the lead READ.

Check in with lead READ at end of shift to track suppression repair work.

Remove flagging if no longer in use.

AMR Medic 230 staged at DP-19

 Division Group Communicat Function 	Channel	Channel Name	RX Frequency N/W	RX Tone	TX Frequency N/W	TX Tone
Command	1	NIFC C3	168.0750 N	131.8	170.4250 N	131.8
Command	2	NIFC C31	163.5750 N	131.8	169.7250 N	131.8
Tactical	6	NIFC T3	168.6000	131.8	168.6000	131.8
A/G Command	10	A/G CMD	168.7375 N		168.7375 N	
Prepared by (Resource Unit Leader)	by (Resource Unit Leader)		pproved by (Planning Section C	Chief)	Date	
Tanya Costello (t)		١	Walter Herzog	September 5	September 5, 2015	

DIVICIONI ACCIONIATENT	- 1107		1. Branch				2. Divisio	n/Group	
DIVISION ASSIGNMENT	ri2i							H/L/M 2	OF2
3. Incident Name			4. Operational Pe	eriod	.,		•		
SOUTH COM	ΛPLEX		Date: September 6, 2015 Time: 0700 - 1900						
5."	gravita de la companya de la company	Ор	erations Personnel						
Operations Chief	ALEC LANE	-	Division/Grou	p Superv	/isor	ONIMMEL YO	SS, RAY DOME	roski (t)	
Planning Ops.	CURT LINDSTRAND		Air Ops. Bran	ch		GLEN	IN DIETZ		
6.	Res	ources Assigne	ed this P	eriod					
Strike Team/Tack Force/ Poseuroe Decignator			ader	LWD	Numl Perso	1	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time
TFLD (†) O-771		JENNIFER	McDOWELL	9/17	1		N	0700	1900
HEQB O-772		AARO	Ν LΑΠΑ	9/22	1		N	0700	1900
HEQB (†) O-777	-	KRISTOPHI	OPHER DARNALL		1		Ν	0700	1900
HEQB (†) O-791		RICHAR	ED LUCIUS	9/18	1		Ν	0700	1900
SOFR O-695 (Share w/	DIV Y)	THOMAS	DONOHOE	9/14	1		Ν	0700	1900
SOFR (t) O-787 (Share	w/ DIV Y)	BRAD	PALMER	9/19	1		N	0700	1900
FEMP O-579 (Share w/	'DIV Y)	PAUL SA	ALVESTRIN	9/6	1		Ν	0700	1900
FEMP O-5492 (Share w	// DIV Y)	FRANK	(GALLO	9/7	1		Ν	0700	1900
FEMT O-786 (Share w/	DIV Y)	JOSH	TUCKER	9/19	1		N	0700	1900
READ O-424		DENIC	E EDGAR	9/8	1		N	0700	1900
READ O-666		RAY C	ABLAYAN	9/11	1		N	0700	1900
READ O-773		BRENNA I	MONTAGNE	9/16	1		N	0700	1900
READ O-613		NICO	LE BRILL	9/10	1		N	0700	1900

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AMR Medic 230 staged at DP-19

9. Division Group Communication	on Summar	Victoria de la Composición del Composición de la		POTENTIAL PROPERTY OF THE PROP		
Function	Channel	Channel Nam		RX Tone	TX Frequency N/W	TX Tone
Command	1	NIFC C3	168.0750 N	131.8	170.4250 N	131.8
Command	2	NIFC C31	163.5750 N	131.8	169.7250 N	131.8
Tactical	6	NIFC T3	168.6000	131.8	168.6000	131.8
A/G Command	10	A/G CMD	168.7375 N		168.7375 N	
Prepared by (Resource Unit Leader)	pared by (Resource Unit Leader)		approved by (Planning Section C	Chief)	Date	
Tanya Costello (t)			Walter Herzog	September 5	September 5, 2015	

DIVISION ASSIGNMENT	LIST		1. Branch			2. Division	n/Group O/Q	
3. Incident Name			4. Operational Pe	eriod	•••••	<u> </u>		
SOUTH COM	1PLEX		Date: Se	ptembe	r 6, 2015	Time	e: 0700 - 19	00
5.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Оре	erations Persor					
Operations Chief	ALEC LANE		Division/Grou	p Superv	isor BRE	T DAVIDSON	1	
Planning Ops.	CURT LINDSTRAND		Air Ops. Bran	ch	GLE	NN DIETZ		"
	Res	ources Assigne	ed this Pe	eriod .				
Strike Team/Task Force/ Resource Designator			eader	LWD	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time
FNG T6 OUTBACK E-8		LEE H	LEE HOWARD		3	N	0700	1900
ENG T6 RAMOS EAGLE	E-272	ROBER	T MORRIS	9/13	3	N	0700	1900
FEMT O-300 (Share w/		MICHAEL BOARDAN		9/6	1	N	0700	1900
FEMP O-598 (Share w/		RICHARD WALSH		9/9	1	Ν	0700	1900
FEMP O-784 (Share w	******	PAUI	MOEN	9/19	1	N	0700	1900
FEMP O-785 (Share w/		MIKE	JACOB	9/19	1	Ν	0700	1900
SOF2 O-774.58 (Share		JEFF B.	ARNHART	9/16	1	Z	0700	1900
				-				
				-				
								
7. Control Operations		<u> </u>					<u> </u>	

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AMR Medic 230 staged at DP-19

A/G Command Prepared by (Resource Unit Leader)	10	A/G CMD	168,7375 N oved by (Planning Section C	Thief)	168.7375 N Date		
Tactical	4	NIFC TAC 1	168.0500	131.8	168.0500	131.8	
Command	2	NIFC C31	163.5750 N	131.8	169.7250 N	131.8	
Function	Channel	Channel Name	RX Frequency N/W	RX Tone	TX Frequency N/W	TX Tone	

DIVISION ASSIGNMENT	DIVISION ASSIGNMENT LIST							2. Division/C	6roup S/Z/T 1 OF	2	
3. Incident Name				4. Opera	ıtional Perio		. <u></u> l	<u></u>			
SOUTH COM	PLFX			Da	_{ite:} Sept	ember 6,	2015	Time: 0700 - 1900			
			Ope		Personn						
Operations Chief	ALEC LAN		<u> </u>	23.3 1		Supervisor		E SCHMIDT		<u> </u>	
Planning Ops.	CURT LIN		<u></u>	Air Op	os. Branch		GLEI	NN DIETZ			
6.			Resc	l rces	Assianed	this Perio	d	The second			
Strike Team/Task Force/ Resc			5: 13 13	Leader		LWD	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time	
HC2 OC 36 C-111			BRIAN ETI	HERIDG	E E	9/11	20	N	0700	1900	
ENGT3 FIRESTORM E-28		<u> </u>	TOMMEL			9/13	3	N	0700	1900	
ENGT6 SHANK E-18			RYAN F	LORES		9/11	3	N	0700	1900	
				HOLTER	2	9/11	3	N	0700	1900	
ENGT6 MOUNT ADAMS			DONALD	HOLTE	:R	9/11	3	N	0700	1900	
	WT-T2 DARRAH LOGGING E-37 MAR\					9/12	1	N	0700	1900	
				OLDEN	 	9/13	1	N	0700	1900	
WT-T2 DARRAH LOGGING E-234			WAYNE VIRAG			9/12	1	N	0700	1900	
WT- T2 CA-TNF # 4289 E-291			PEDRO BARBA			9/8	1	N	0700	1900	
DOZ-T1-BEN'S TRUCK #19 E-109			BILL SCARE	BOROU	GH	9/10	1	N	0700	1900	
DOZ2 MODOC #4 E-279			RRY ST. JOH	IN/ INS	LEY (T)	9/15	2	N	0700	1900	
DOZ2 NORTH RIVERS E-209			MIKE N	ICHOLS	3	9/6	1	N	0700	1900	
EXCA2 NORTH RIVERS			TIM E	BECK		9/13	1	N	0700	1900	
EXCA2 ELLENBERGER E-			WALBERG		9/10	1	N	0700	1900		
EXCA2 WANNER ENT. E-			ZANE CLAIRE			9/13	1	N	0700	1900	
MAST T2 CARLSON CON			CASEY CARLSON		N	9/13	1	N	0700	1900	
SKIDDER CRANE MILLS			SHAWN CARTER		R	9/19	1	N	0700	1900	
GRADER E-334			ED S	TONE		9/13	1	N	0700	1900	
CHIPPER WELL EQUIPED	E-337		RONALE) ADKIN	us	9/13	1	N	0700	1900	
HEQB O-751			DARREI	N BEAT	Y	9/15	1	N	0700	1900	
HEQB O-752			AICHAEL G	ROSENI	ВАСН	9/15	1	N	0700	1900	
TFLD O-765			KARL F	OWLER	?	9/17	1	N	0700	1900	
										125/84	
9. Division Group Com	municati	on Summar	<u> </u>		The same of the sa	Karbaca anang Corper I Malain C			CONTROL OF THE PARTY OF THE PAR	TVT	
Function		Channel	Channel N			quency N/W			requency N/W	131.8	
Command		2	NIFC C			3.5750 N			169.7250 N		
Command	A CONTROL OF THE CONT	3	NIFC C			3.8750N			163.6625N	131.8	
Tactical		8	R5 TAC	5		7.1125 N	13		167.1125 N	131.8	
A/G Command		10	A/G CI						168.7375 N		
Prepared by (Resource Unit Le	eader)			1 ''		anning Section	on Chief)	[1	Date Santambar	E 2015	
Tanya Costello	(†)			Wo	ılter Herz	og			September	5, 2015	

DIVISION ASSIGNMENT	HICT		1. Branch			2	2. Division/Group				
DIVISION ASSIGNMENT	LISI						S/Z/	T 2 OF 2			
3. Incident Name			4. Operational Pe	eriod							
SOUTH CON	∧PLEX		Date: S€	Date: September 6, 2015 Time: 0700 - 1900							
5.	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Op	perations Perso	rations Personnel							
Operations Chief	ALEC LANE		Division/Grou			LE SCHMIDT					
Planning Ops.	CURT LINDSTRAN	ID	Air Ops. Bran	nch	GLI	ENN DIETZ					
6.		Re	l sources Assigne	ed this Peric	nd .			93,414,01			
Strike Team/Task Force/ Res	eader	LWD	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time					
TFLD (t) O-795	IFLD (t) O-795 BRIAN M			9/17	1	N	0700	1900			
TFLD (T) O-568		KURT	STEELE	9/8	1	N	0700	1900			
FELB O-566		PATRIC	CK DOYLE	9/7	1	N	0700	1900			
TFLD (†) O-789		DUANE	KNIGHTON	9/18	ī	N	0700	1900			
STEQ O-513		JEFFE	RY SMITH	9/9	1	N	0700	1900			
FOBS O-757		BEAU R	RICHWINE	9/16	1	N	0700	1900			
SOFR O-774.58 (Share	w/ DIV O/Q)	JEFF B	ARNHART	9/16	1	N	0700	1900			
FEMT O-300 (Share w/	DIV O/Q)	MICHAEL	BOARDAN	9/6	1	N	0700	1900			
FEMP O-598 (Share w)	/ DIV O/Q)	RICHAF	RD WALSH	9/9	11	N	0700	1900			
FEMP O-784 (Share w)	/ DIV O/Q)	PAUI	L MOEN	9/19	1	N	0700	1900			
FEMP O-785 (Share w)	/ DIV O/Q)	MIKE	JACOB	9/19	1	N	0700	1900			
READ O-144		MIGUE	L JEFFREY	9/7	1 1	N	0700	1900			
READ O-774.34		KRIST	EN LARK	9/16	1	N	0700	1900			
READ O-779		JOHAN H	OGERVORST	9/17	1	N	0700	1900			
READ O-796		BLAKE	CREAGAN	9/19	1	N	0700	1900			
THSP O-768		STACY H	HIGHTOWER	9/15	1	N	0700	1900			

Mop up as needed to maintain containment.

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AMR Medic 230 staged at DP-19.

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9. Division Group Communical	ion Summar	у					
Function	Channel	Channel Nam	e RX Frequency N/W	RX Tone	TX Frequency N/W	TX Tone	
Command	2	NIFC C31	163.5750 N	131.8	169.7250 N	131.8	
Command	3	NIFC C39	173.8750N	131.8	163.6625N	131.8	
Tactical	8	R5 TAC 5	167.1125 N	131.8	167.1125 N	131.8	
A/G Command	10	A/G CMD	168.7375 N		168.7375 N		
Prepared by (Resource Unit Leader)	pared by (Resource Unit Leader)		pproved by (Pianning Section C	hief)	Date		
Tanya Costello (t)		Walter Herzog	September 5, 2015				

DIVICION ACCIONATAT		1. Branch					2. Division/Group			
DIVISION ASSIGNMENT	usi							W/X		
3. Incident Name			4. Oper	ational Per	iod					
SOUTH CON	APLEX		Date: September 6, 2015 Time: 0700 - 1900							
5.		Оре	eration	s Personi	nel		1 2 35			
Operations Chief	ALEC LANE		Dīvisi	ion/Group	Superv	/isor				
Planning Ops.	CURT LINDSTRAND		Air O	ps. Branc	h		GLENN	DIETZ		
6.		Res	ources	Assigned	d this P	eriod			Capacita Cap	
Strike Tearn/Task Force/ Re		Lec	ader		LWD	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time	
PATROL BY AIR			1.00							
		1000								
7. Control Operations										
Monitor and bucket work as	directed by ops.									
Special Instructions:										
AMR Medic 230 staged at DP	-19									
9. Division Group Com	mulaication 9 mm	10	on Constant			manufation of the Jo	and street are are			
Function	Channel	Channel N	ame	RX Fre	quency l	v/w RX	Tone	TX Frequency N/W	TX Tone	
Command	1	NIFC C	:3		8.0750 N		31.8	170.4250 N	131.8	
Command	3	NIFC C	39	17	3.8750N	ı ī	31.8	163.6625N	131.8	
Taclical	7	R5 TAC	4	1.	66.5500	1	31.8	166.5500	131.8	
A/G Command	10	A/G CA				168.7375 N				
Prepared by (Resource Unit Le	No. 2 Control of the			ved by (Pla	anning Se	ection Chief)		Date		
Tanya Costello			Wa	ılter Herz	og			September 5	, 2015	

DIVISION ASSIGNMENT	LICT		1. Branch			2.	2. Division/Group		
DIVISION ASSIGNMENT	LI31	:						Y	
3. Incident Name			4. Operational Pe	riod		···········		14 0111	
SOUTH COM	APLEX		Date: Se p	otembe	r 6, 201	5	Time	e: 0700 - 19	00
5.	22993944	Оре	erations Person	nel					
Operations Chief	ALEC LANE		Division/Group	p Superv	rîsor	NICK BL	INCH		
Planning Ops.	CURT LINDSTRAND		Air Ops. Branc	h		GLENN	DIETZ		
6.	0883200 0	Resc	ources Assigne	d this Pe	eriod		a : .		
Strike Team/Task Force/	Resource Designator		Leader	LWD	Numbe Person		ans. eded	Drop Off PT./Time	Pick Up PT./Time
ENG T3 CA-SHF 12 - E-335		MAT	T PUCKETT	9/12	5	j	٧	0700	1900
EVCAV-T2 CROSS COUNTRY E-327		BYRC	ON CROSS	9/10	1	ì	٧	0700	1900
EXCAV-T2- LEPAGE CO. E-223		BROOKS / STIEFF		9/11	2	1	٧	0700	1900
FOBS (t) O-630		BLAKE ABBOTT		9/9	ļ	l	7	0700	1900
FEMP O-579 (Share w/ DIV H/L/M)		PAUL SALVESTRIN		9/6]	1	٧	0700	1900
FEMP O-5492 (Share w	/ DIV H/L/M)	FRANK GALLO		9/7	1		7	0700	1900
FEMT O-786 (Share w/	DIV H/L/M)	ISOL	H TUCKER	9/19	1	ı	٧	0700	1900
SOFR O-695 (Share w/	DIV H/L/M)	THOMA	S DONOHOE	9/14	1	ı	٧	0700	1900
SOFR (t) O-787 (Share)	w/ DIV H/L/M)	BRAE	D PALMER	9/19	1		7	0700	1900

Mop up as needed to maintain containment.

Continue to patrol and secure lines.

Continue suppression repair on contingency lines and control lines as well as assess and repair Drop Points and roads in coordination with READS.

Special Instructions:

Identify resources available to respond for initial attack.

Utilize water use log sheet and turn into DIVS at end of shift.

Coordinate with ground support to backhaul any miscellaneous equipment and trash.

All suppression repair activities will be coordinated by the lead READ.

Check in with lead READ at end of shift to track suppression repair work.

Remove flagging if no longer in use.

AMR Medic 230 staged at DP-19.

Function	Channel	Channel Nar	me RX Frequency N/W	RX Tone	TX Frequency N/W	TX Tone
Command	The state of the s	NIFC C3	168.0750 N	131.8	170,4250 N	131.8
Command	3	NIFC C39	173.8750N	131.8	163.6625N	131.8
Tactical	7	R5 TAC 4	166.5500	131.8	166.5500	131.8
A/G Command	10	A/G CMD) 168.7375 N		168.7375 N	
ared by (Resource Unit Leader)		1,	Approved by (Planning Section C	Chief)	Date	
Tanya Costello (t)			Walter Herzog		September 5	, 2015



South Complex Fire Weather Forecast



FORECAST NO: 61

NAME OF FIRE: South Complex

PREDICTION FOR:

Sunday Day Shift

UNIT:

Shasta-Trinity National Forest

SHIFT DATE: TIME AND DATE Sep 6, 2015

SIGNED:

Phil Manuel

Phil Manuel

FORECAST ISSUED: Sep 5, 2015 @ 1800 PDT

Incident Meteorologist

WEATHER DISCUSSION:

... A Week Of Rising Temperatures And Low Humidity...

The upcoming week will feature abundant sunshine, steadily rising temperatures, and terrain driven winds. No rain is expected for the next 6 to 10 days.

Weather Forecast for Sunday:

Weather: Sunny.

High Temperature ... Midslopes/Ridges 68-75. Lower valleys (camp) 80-85.

Min RH (Midslopes/Ridgetops/valleys)... 14-19%

20-FOOT WINDS:

Ridgetop...... North-Northwest 4-8 mph.

MidSlope...... Upslope 2-5 mph.

Valley...... Upvalley 3-7 mph. Gusts of 10 mph during the afternoon and evening.

Weather Forecast for Sunday Night:

Weather: Mostly Clear.

Low Temperature (Ridgetops)... 47-52. Low Temperature (Valleys....... 42-47.

Max RH (Midslopes/Ridgetops)...... 55-70%.

Max RH (Valleys)...... 70-85%.

20-FOOT WINDS:

Ridgetop......... Northeast 3-6 mph.

Slope/Valley..... Up valley 3-6 mph until 2200, then down valley drainage 1-3 mph.

Weather Forecast for Monday:

Weather:

Sunny & Warmer.

High Temperature ...Midslopes/Ridges 72-78. Lower valleys (camp) 83-88.

Min RH (Midslopes/Ridgetops/Valleys)...... 14-19%.

20-FOOT WINDS:

Ridgetop...... North-Northwest 4-8 mph. UpSlope/UpValley..... 3-7 mph with gusts to 10 mph.

EXTENDED OUTLOOK for Tuesday Through Thursday:

Much Warmer. No rain. No Clouds. Highs 87-93 valleys and Lower 80s in the higher elevations. Minimum RH 12-18%. Lows 45 to 55. Good humidity recovery at night in the valleys, but fair to poor recovery for elevations above 4000 feet.

FIRE BEHAVIOR FORECAST

	INPUTS					
UNIT: Shasta Trinity National Forest	SIGNED: /s/ John Wood FBAN					
DATE ISSUED: 9/05/15 TIME ISSUED: 2000						
FIRE NAME: South Complex	OPERATIONAL PERIOD: 9/06, 0700 to 1900					
FORECAST NUMBER: 61	TYPE OF FIRE: Wildland Fire					

WEATHER SUMMARY: The upcoming week will feature abundant sunshine, steadily rising temperatures and terrain drive winds. No rain is expected for the next 6 to 10 days.

Expect maximum temperatures Ridges: 68-75, Valleys: 80-85 Minimum humidity, 14-19%. 20 foot winds: Ridges north 4-8 mph, Mid-Slope: upslope 2-5 mph, Valleys: up valley 3-7 with gusts to 10 during the afternoon and evening.

OUTPUTS

GENERAL: Areas with heat and available fuels will show some activity. As temperatures warm and relative humidity lowers expect aspect to show more influence over development of fire activity as south and west slopes will heat and dry faster than north and east slopes. The presence and amount of light fuels will raise the potential for fire activity, especially on south and west slopes. With shorter days fuels will need more time to reach burnable levels each day, though as we get back to warmer drier days this effect may not make a noticeable difference. Exposed fuels will have a faster drying time than sheltered fuels both because of exposure to wind and solar heating aiding the drying process. Fire spread will likely be limited to small areas that could support active fire spread and a change in slope, aspect and fuel moistures could substantially moderate spread potential. Soil moisture will persist with ground cover and sheltered areas and have a longer duration effect on fuel moistures on fuels in direct contact with the ground. Needle cast from scorched or underburned trees will continue to fall adding some potential for fire spread and may be a concern in areas with viable heat sources.

Backing/Flanking rate of spread up to 2 ch/hr, flame lengths 1-3 feet. Head fire in timber understory rate of spread 3-12 ch/hr, flame lengths 2-9 feet, timber litter rate of spread up to 3 ch/hr, flame lengths around 2 feet. In shrub fuels rates of spread could reach 25ch/hr, flame lengths 5-7 feet.

SPECIFIC: Fine fuel moisture 6% 1000 hr 12% Probability of ignition 55-75% Spot distance about a 1/4 mile.

All Divisions: Fire activity will slowly ramp up as weather continues with a warm and dry trend. This will be seen mostly in the lengthening of the burn period. Expect fire spread in areas with heat source and available fuel. Fire behavior will likely be smoldering and creeping but where fuels are exposed to the wind active burning will be possible for brief periods of fire activity. Slight changes in conditions will modify fire activity.

AIR OPERATIONS

Smoke should not impact air operations.

Safety Message

Discuss the potential for fire weakened trees to become hazards. Days and weeks have passed since many of these trees have burned and they may have weakened roost systems, fire damaged boles and branches may be hanging on by fire weakened wood. Discuss the need to size up any work area and develop escape routes scenarios for potential gravity hazards like snags.

INCIDENT RADIO		Incident Name		·	Date/Time Prepared		perati	Operational Period Date/Time
COMMUNICATIONS PLAN	IONS FLAN	South Complex	Valdino		9/9/10 1/00	1		919119 9199 - 1999
Zn / Ch Function	Channel Name/Trunked Talkgroup	Assignment	RX Freq	RX Tone/NAC	TX Freq	TX Tone/NAC	Mode A, D, M	Remarks
1 COMMAND	NIFC C3	ALL DIVISIONS	168.0750	131.8	170.4250	131.8	Α	LIMEDYKE MT. Linked to CMD Net
2 COMMAND	NIFC C31	ALL DIVISIONS	163.5750	131.8	169.7250	131.8	≻	IRONSIDE MT. Linked to CMD Net
3 COMMAND	NIFC C39	ALL DIVISIONS	173.8750	131.8	163.6625	131.8	≻	HAYFORK BALLY Linked to CMD Net
4 TACTICAL	NIFC T1	DIV O / Q	168.0500	131.8	168.0500	131.8	≻	
5 TACTICAL	NIFC T2	I/A	168.2000	csa	168.2000		₽	INITIAL ATTACK
6 TACTICAL	NIFC T3	DIV H / L / M	168.6000	131.8	168,6000	131.8	Þ	
7 TACTICAL	R5 TAC 4	DIV W / X / Y	166.5500	131.8	166.5500	131.8	≻	
8 TACTICAL	R5 TAC 5	DIV S / Z / T	167.1125	131.8	167.1125	131.8	>	
9 TACTICAL	R5 TAC 6	UNNASIGNED	168.2375	131.8	168.2375	131.8	⋗	
10 AIR TO GROUND	A/G CMD	ALL DIVISIONS	168.7375	CSQ	168.7375		Þ	
11								
12 TACTICAL	VTAC 11	DIV H (ROUTE)	151.1375	156.7	151.1375	156.7	≻	DIV H (ROUTE COMPLEX)
13 COMMAND	NIFC C37	ALL DIVISIONS (ROUTE)	172.5500	156.7	162.7750	156.7	A	ROUTE COMMAND NET
14 COMMAND	SHF TN12	FOREST NET	171.5750	csa	169.1000	127.3	A	SHF FOREST NET RPT TONE 12
15 TACTICAL	CALCORD	MEDICAL	156.0750	156.7	156.0750	156.7	A	
16 AIR GUARD	GUARD	All Divisions	168.6250	csa	168.6250	110.9	A	AIR GUARD - EMERG. USE ONLY
17								
18								
19	The state of the s							
20 AIR GUARD	GUARD	All Divisions	168.6250	0.0	168.6250	110.9	A	AIR GUARD - EMERG USE ONLY
SPECIAL INSTRUCTIONS: ROAD GROUP WILL USE	ROAD GROUP WILL USE	ETHE TACTICAL THAT IS ASSIGNED TO THE DIVISION THEY ARE WORKING IN	NED TO THE DIVIS	SION THEY AI	E WORKING IN.			The same of the sa
Prepared By (Communications Unit Leader)	าร Unit Leader)			Incident Location	tion	HYAMPOM, CA	M, C	
Phil Shafer COML/Harold Reed COML T, Nor Cal Team 1	arold Reed COML T	, Nor Cal Team 1		County	TRINITY	Latitude, Longitude	gitude	N40' 37.399" W123' 27.92'
Deviation is assumed to	be narrow band unles	Deviation is assumed to be narrow band unless otherwise noted in the remarks. Mode refers to either "A" (a	narks. Mode refei	's to either "	A" (analog), "D"	(digital) or "	M" (n	nalog), "D" (digital) or "M" (mixed mode). 9/5/2015 SW

AIR OPERATIONS SUMMARY Prepared By: Glenn Dietz

Prepared Date: Sept 5, 2015

Prepared Time: 1900

1. INCIDENT NAME:	2. OPS PERIOD DATE:	START TIME:	END TIME:	SUNRISE:	SUNSET:
SOUTH COMPLEX (CA-SHF-2108)	Sept. 6, 2015	0700	2000	0644	1938
FORK COMPLEX (CA-SHF-2067)					
3. REMARKS (Safety Notes, Hazards, Air Operations Special Equipment, etc.):	erations Special Equipment, etc.)	4.	READY ALERT AIRCRAFT	\FT 5. TFR#:	#:
Helicopters are being shared from the River Complex. Be aware of terrain influenced winds & wires crossing the Trinity River watershed as well as powerlines through the center of the South fire, East-West.	Cornplex. Be aware of terrain inf ershed as well as powerlines thro		MEDEVAC: H-553 ***CALCORD TONE 6***	NO TFR	Ä
Reference SHF Air Hazard Map as well as South & Fork Air Ops Maps available on ftp site	outh & Fork Air Ops Maps availa	Z	TIAL ATTACK: H-506		
Track where water was taken from. All buckets/tanks must be cleaned after dipping	ets/tanks must be cleaned after o	dipping			
out of the Trinity River & before dronning on the South Complex.	the South Complex				

6. PERSONNEL NAME	NAME	PHONE #	7. FREQUENCIES	Z	₽¥	8. FIXED-WING- Type/ Make-Model/ N#/ Base
)	Glenn Dietz ICP:	\neg	VID/VID DW/ EE	1000		AIRTANKERS- Order through RICC as needed.
ACBO	Cell:		AIN/AIN NW-11	125.525		
ASGS			AIR/ AIR RW-FF			LEAD PLANES- Order through RICC as needed.
		:	AIR TO GROUND		168.7375	ATGS AIRCRAFT- Order through RICC as needed.
HLCO			COMMAND		SEE COMM PLAN	
HEB2	Brian Bates	530-286-2249	DECK		163,1000	
HEB2(t)	Josh Wilson	530-286-2251 TOLC	TOLC			
			MEDIVAC ON		156.0750	
		-	CALCORD		TONE 6	OTHER FW AIRCRAFT-
)))	O LIE CONTENDO (LES ALLES LOS LA				Company of the Compan

HELICOPTERS (Use Additional Sheets as Necessary)

							Recon	0000	0,00	HLB	Dell COD AT	ı	7-00
							Pax, Bucket,	2800	0700 0800	Trinity	2 Ball 205 A1	v	- FI
							PSD, Recon	000	0	HLB	10 TO 7	C	
							Pax, Bucket,	0800	00700	Trinity	M-553 3 Bell 407	N	אר אר
KEMAKKS	AVAIL START	AVAIL	BASE	MAKE/ MODEL	** ~·	FAA N#	REMARKS	AVAIL START	AVAIL	BASE	MAKE/ MODEL	Ý	FAA N#
)] -		:							-	

			As needed, order through AOBD.	Water Dropping
			As needed, order through AOBD.	Recon
FLY TO	FLY FROM	MISSION START	NAME OF PERSONNEL OR CARGO (If applicable) or instructions for tactical aircraft	TYPE/FUNCTION
etc.	onnel Transport, Bucket Operations, SAR, etc.	ન્ન Transport, Buck	10. TASK/ MISSION/ ASSIGNMENT (Type/ function includes: Air Tactical, Retardant, Recon, Personne	10. TASK/ MISSION/ ASSIGN

		М	EDICAL	PLAN	I (ICS	206 WF)				
1. Incident/Project Name		· · · · · · · · · · · · · · · · · · ·				tional Period		· · · · · · · · · · · · · · · · · · ·		· ·
South Complex					Date/Tin	ne 9/6/15 0700 -	1900			
3. Ambulance Services				· . l.,		· · · · · · · · · · · · · · · · · · ·				
Name			Location			Phone & EMS Freque	ncv	Adva	nced Life S Yes	upport (ALS) No
AMR medic 230 - Incident	Amb.	Day - DP 19	Night -	ICP		Contact on Com			х	
Hyampom Fire Dept. Ambu	lance	Hyampom,				911 or 530-623-8	3128			Х
Trinity County Ambulance		Hayfork, CA				911 or 530-623-8	3128		х	
4. Air Ambulance Service	es (CO		ith AIR AMBUI	LANCES	on CALC	ORD tone 6)				
Name			Phone			Ту	pe of Air	craft &	Capability	
H-553 18 i	min eta	Contact air	ops on Comm	and		Assigned to incide	ent and R	liver co	mplex	
Reach or PHI 30 r	min eta	911 or 530	-623-8128 (Trin	ity Co. S	heriff)	Air Ambulance -	Redding,	CA Day	//Night	
Coast Guard Up to 1:15	hr eta	911 or 707-	839-6100			Hoist Rescue – Eu	ıreka, CA	Day/N	ight	
CHP 30 m	nin eta	911 or 530	-623-8128 (Trin	ity Co. S	heriff)	ALS Hoist Rescue	– Reddii	ng, CA		
5. Hospitals	•		8		97 ,7,			·-····································		
Name & Level		GPS Datum - egrees Decim		Trave	el Time Gnd	Phone	Heli Yes	-		ddress
-	Lat:	N40°44.	.34	+	T	1 110110	-			
Trinity Hospital	Long: VHF:			20 min	2 hrs	530-623-5541 x1	X		410 N. Taylor St. Weaverville, CA	
St. Joseph Hospital	Lat: Long: VHF:	N40°47. W124°0		30 min	2 hrs	707-445-8121	х		2700 Do	beer, Eureka CA
Shasta Regional Medical Center	Lat: Long:	N40°35. W122°2		35 min	3 hrs	530-244-5353	х		1100 Butte, Redding	
	VHF:	N38°33.	17		ļ					
UC Davis Level I Trauma/Burn Center	Long:			1.5 hrs	6 hrs	916-734-3636 916-734-3790	X	2315 Stockton Blvd Sacramento, CA		
6. Division / Crew Pre-plar	ı. Updat	e and discus	s with assigne	d resour	es daily	<u>.</u>		• .	 	
Crew EMTs & Equipmen	t									s
Fireline EMTs & Locatio										
Adv. Life Support?										
Air Hoist site: Lat: / Long:					-					
Helispot: Lat: / Long:										
Alternate no-fly plan:										
7. Remote Aid Stations										
South Medical Unit-IC	P	Point of Co	ntact:	I	MEDL -	Josh Ramey 530-6	628-4840	· · · · · · · · · · · · · · · · · · ·		16.
Hyampom, CA			nders & Capat			e Medical – Advanc		Support		
N40°37.514 W123°28.019			Available on S	ite:	Medical	supplies				
M 179 70'01A		Ambulance	ETA:		Air – 30	min. Ground –	10 min.			
8. Prepared By (Medical U		er)	9. Date/Tim	ie	10. R	eviewed By (Safety	Officer)		11	. Date/Time
Josh Ramey - MEDL 530-27			9/5/15 1800		Miche	le Tanzi	$\overline{}$		9/5/	15 1800
Joshua Kar			!			11179 1 /	- 1	. /	_	

Injury or Incident Communications Protocol

DECLARE:	Medical Emergency	or No	n-emergency	Medical transport	
Best transport method:	(circle) Ambulance	Helicopter	<u>Vehicle</u>		
Location: (Div. & Lat / I	Long)		04 D	Desired minutes	
	GPS	Format: WGS	84 Degrees, L	Decimal minutes	
	required				
Number of injured	Type of inju	uries			J1 /4
Closest pick up point (l	DP, Helispot)		·····	***************************************	
Level of consciousness (alert & oriented x 1-4)	sRes	p P	ulse _ BP	Weight _	
Injury	Ag	ency/Crew (No	o Names)		
Medical History/Allergic	es			.49/444	

Air Transportation Triage

	Ground or Air Ambulance to Hosp.	Transport to Med Unit
Mechanism	Hit by a falling tree or large branch	Minor dehydration
	Fall of 10' or more	Cut or laceration with bleeding controlled
	Insect bite with shortness of breath	Minor bites and Stings
	Signs of heat stroke (hot, dry, disoriented)	Minor burns
	Burn Injury greater than 1% body area	
Area Injured	Significant Blunt or Penetrating Trauma to	Minor blunt trauma
r ii ou ii jui ou	Head, Neck, Chest, Abdomen or pelvis	Minor penetrating trauma
	Any Arm or Leg fracture above the Joint	Extremity sprains and strains
		Simple fracture below elbow or knee
Symptoms	Disoriented	Alert and oriented
- y p to o	Chest Pain or Shortness of Breath	No shortness of breath
	Weak or absent radial pulse	Good pulses
	Pale, cold and sweating	

Medivac Sites

H 1 - N40°41.674 x W123°26.164

H 2 - N40°42,833 x W123°31,051

H 3 - N40°44.081 x W123°30.039

Hyampom Airstrip (ICP) - N 40°37.514 x W123°28.019

If air or ground ambulance is DELAYED:

Package and transport patient to rendezvous with ambulance. Re-route EMS helicopter to rendezvous point as appropriate.

If Declaring an "Incident within the Incident"

The closest DIVS will respond to manage the incident. They are responsible for giving an accurate size up, ensuring scene safety, setting priorities and initiating an appropriate response.

The closest Safety Officer and Line EMS will respond to the scene to assist the DIVS. Secure site and begin initial investigation when situation is stabilized.

SOUTH COMPLEX RISK ANALYSIS (215a) Day Shift, September 6th, 2015

VIQ	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS / WARNINGS / REMEDI	ES			
All	Danger/Hazard Trees	 Follow the Hazard Tree Safety guidelines on pages 22 & 23 of the IRI Survey work area/parking area for hazard trees prior to committing resoul Mitigate hazard if safe to do so by qualified personnel, or flag off area, de 	rces			
		Establish trigger points for disengagement during high wind events Review, understand and discuss with your resources the Medical Plan in				
		~ Develop Division/Crew Pre-Plan in block #6 on the Med necessary information to assist you with an Incident w ~ Base all operational decisions and activities on these 3 questions:	dical Plan and fill in			
ALL	Medical Emergencies	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? If the answers are insufficient, stop, re-assess and consider alternate strate.				
		~ Have Alternate plan in place when aircraft is grounded due to visibility iss ~ If air or ground ambulance is delayed: package and transport patient to re ambulance. ~ Re-route EMS helicopter to rendezvous point as appropriate ~ Be aware of Rotor Wash & its effect on Fire behavior when the	endezvous with incoming			
		to an active fire edge. (Divisions T, X, Y) If possible, MOVE patient to an area with less fire activity 	to the second se			
ALL	Hydration & Heat Illness	Pre-hydrate, Re-hydrate! Dehydration is preventableDrink a mini Do NOT mix with water or dilute electrolyte drink. It must be consumed a properly. Low volumes of dark, concentrated urine or painful urination indicated rehydration, & medical attention. Description.	as is for the body to absorb			
		Pace work to avoid heat injuries Refer to Medical Plan for additional EMS care and Evacuation	· · · · · · · · · · · · · · · · · · ·			
ALL	Communications	Ensure you have received the most current communications plan, and cloned to it BEFORE heading out to your work area. Use human repeaters in areas with sketchy communications.	ations.			
		Refer to the 5 communication responsibilities listed on page ix in the 201 Review and discuss Aviation Watch Out Situations listed in IRPG pg				
W/T/X	Aircraft Operations till 2000	 Ensure the mission is necessary Evaluate risk vs gain for each mission/target. Utilize ground resource contact with aircraft for bucket work. Use aerial Supervision and maintain separation. 				
W/T/X	Fire Behavior	Ensure a solid anchor point and flank. Use experienced LOOKOUTS under these conditions. Monitor weather conditions. Be aware of visual indicators (clouds, WX on Maintain adequate escape routes and safety zones. Set trigger points wany changes. Spotting Potential still existsup to ¼ mile. "Eyes to the green"	obs., cold front passage) hen appropriate. Communicate			
ALL &	Driving Hazards	Reduce speed in Developed Areas. Be watchful of local traffic & pedestrians. SEAT BELTS ONLIGHTS ONBEFORE wheels turn!even in ICP Reduce driving speeds to allow for reaction time lag.				
ICP		 Expect the unexpected around every curve. Don't drive when fatigued. Adhere to agency driving regulations and guidelines. Review and adhere to the driving protocols in todays IAP. 				
H,L,M, O,Q,S, T,Y,Z	Heavy Equipment Operations	 Review and adhere to the driving protocols in todays Art : Ensure that communications are established with the operator. Radio Commo is Required! Make positive eye contact with the operator before being requested to approach the equipment. Maintain a 50' to 100' exclusion area around working equipment. Use a spotter when backing, use qualified operators, and assign appropriate overhead. 				
ALL	Biting, Stinging Insects, & Critters	If allergic to bee stings, let your DIVS & Medic/EMT's know. Leave wildlife alone. Backhaul ALL Trash please.				
ALL	Complacency	Maintain focus! The job isn't done till we're home with Don't let your operations fall into the "routine" category.	our families			
		 Maintain situational awareness in all activities. The first step to an accident involves the false belief that experience 				
	INCIDENT NAME uth Complex ICS 215a	September 5 th , 2015	OPERATIONAL PERIOD Sunday, Day Shift 9/6/2015, 0700 - 1900 Prepared by: Tanzi - SOF1, Bamhart - SOF2, Schwarm - SOF2(t)			
		TIME PREPARED: 1930 HOURS				
			<u> </u>			

LCES

LCES stands for lookout(s), communication(s), escape routes and safety zone(s). These are the same items stressed in the FIRE ORDERS and "Watchout" Situations. I prefer to look at them from a "systems" point of view, that is, as being interconnected and dependent on each other. It is not only important to evaluate each one of these items individually but also together they must be evaluated as a system. For example, the best safety zone is of no value if your escape route does not offer you timely access when needed.

A key concept - the LCES system is identified to each firefighter prior to when it must be used. The nature of wildland fire suppression dictates continuously evaluating and, when necessary, re-establishing LCES as time and fire growth progress. I want to take a minute and briefly review each component and its interconnection with the others.

Lookout(s) or scouts (roving lookouts) need to be in a position where both the objective hazard and the firefighter (s) can be seen. Lookouts must be trained to observe the wildland fire environment and to recognize and anticipate wildland fire behavior changes. Each situation determines the number of lookouts that are needed. Because of terrain, cover and fire size one lookout is normally not sufficient. The whole idea is when the objective hazard becomes a danger the lookout relays the information to the firefighter so they can reposition to the safety zone. Actually, each firefighter has the authority to warn others when they notice an objective hazard which becomes a threat to safety.

Communications(s) is the vehicle which delivers the message to the firefighters, alerting of the approaching hazard. As is stated in current training, communications must be prompt and clear. Radios are limited and at some point the warning is delivered by word of mouth. Although more difficult, it is important to maintain promptness and clearness when communication is by word of mouth.

Incident intelligence (regarding wildland fire environment, fire behavior and suppression operations) both to and from Incident Management (i.e. Command & General Staff) is of utmost importance. But I don't view this type of communication a normal component of the LCES system. Entrapment occurs on a fairly site-specific level. Incident intelligence is really used to alert of hazards (e.g.. "Watchout" situations) or to select strategical operations. LCES is primarily a Division function: responsibility should be here.

Escape Routes are the path the firefighter takes from their current locations, exposed to the danger, to an area free from danger. Notice that escape routes is used instead of escape route(s). Unlike the other components, there always must be more than one escape route available to the firefighter. Battlement Creek 1976 is a good example of why another route is needed between the firefighter's location and a safety zone.

Escape routes are probably the most elusive component of LCES. Their effectiveness changes continuously. As the firefighter works along the fire perimeter, fatigue and spatial separation increases the time required to reach the safety zone. The most common escape route (or part of an escape route) is the fireline. On indirect or parallel fireline, situations become compounded. Unless safety zones have been identified ahead, as well as behind, firefighters retreat may not be possible.

Safety Zone(s) are locations where the threatened firefighter may find refuge from the danger. Unfortunately shelter deployment sites have been incorrectly called safety zones. Safety zones should be conceptualized and planned as a location where no shelter is needed. This does not intend for the firefighter to hesitate to deploy their shelter if needed, just if a shelter is deployed the location is not a tree safety zone. Fireline intensity and safety zone topographic location determine safety zone effectiveness.

Again, a key concept - the LCES system is identified prior to when it must be used. That is lookouts must be posted with communications to each firefighter, and a minimum of two escape routes form the firefighter's work location to a safety zone (not a shelter deployment site) every time the firefighter is working around an objective hazard.

Safety and tactics should not be considered as separate entities. As with any task safety and technique necessarily should be integrated. The LCES system should be automatic in any tactical operation where an objective hazard is or could be present.

LCES is just a re-focusing on the essential elements of the FIRE ORDERS. The systems view stresses the importance of the components working together. The LCES system is a result of analyzing fatalities and near misses for over 20 years of active fireline suppression duties. I believe that all firefighters should be given an interconnecting view of Lookout(s), Communications(s), Escape routes and Safety zone(s).

Thoughts by: Paul Gleason

TRAINING SPECIALIST MESSAGE

Remember:

An individual may not have more than six active position task books at one time.

No more than two of the six allowed position task books may be in a single functional area, including prescribed fire.

Task books expire 3 years from the date they are initiated, documentation of the first assignment resets that date.



Make everything as simple as possible, but not simpler. - Albert Einstein

Appendix A

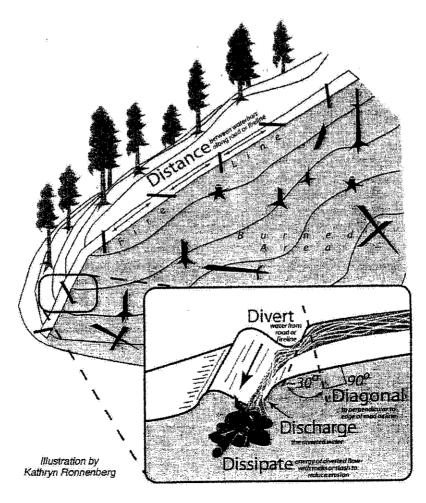
Effective Waterbars

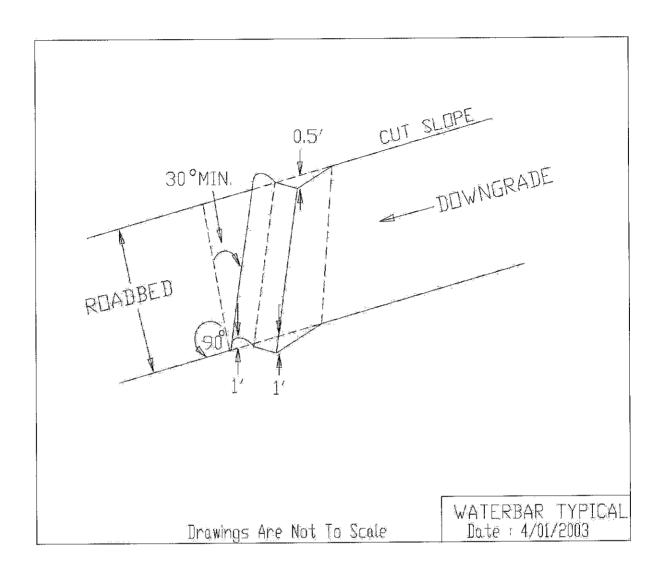
When locating and building water bars, place them the right **distance** apart, at a **diagonal** to the fireline, so that they **divert**, then **discharge**, then **dissipate** the energy of the flowing water. Be sure to make them deep enough so they'll be durable, and that soil does **not block** the water bar outlet.

Recommended spacing for waterbars on firelines.

Fireline slope %		Maximum Distance Apart <u>(feet)</u>
1– 5	.,,	200
6 - 20	***************************************	125
21 - 40		60
41 – 60	,,	40
>60		25

Waterbars should be at least 2 pulaski (4-6 inches) widths wide and 12-24 inches high for handlines.





INCIDENT WATER USE LOG						
DATE	WATER SOURCE	QUANTITY	E NUMBER	DRIVER		

Use this log to track water use.

Include the following information:

Date water was received

Water Source (Where you got the water)

Gallons collected

Resource Order number of resource collecting water

Driver Name

Return this form to FINANCE

(Additional forms available in Finance)

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				
	-					
		* ,				
		30				
		3				
8.	ACTIVITY LOG (CONTINUE ON REVERSE					
TIME	MAJOR EVENTS					
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