ELK COMPLEX
Incident Action Plan
July 31, 2007
0600 - 2000
LCES
FIRST, LAST, ALWAYS

- ✓ **DRIVING ISSUES**
  - o **Keep Speeds down**
  - o **Lights on**
  - o **Seat Belts On**
- ✓ **HAZARD TREES**
  - o **Identify & Flag**
  - o **Stay Alert for Uphill Trees coming downhill**
- ✓ **Hydration**
  - o **Very HOT today**
  - o **Drink before, during & after shift**
- ✓ **WATCH YOUR FOOTING**
  - o **Think Before You Move**
  - o **Watch for rolling rocks**
- ✓ **RE-BURN POTENTIAL**
  - o **Be alert for re-burn in all Divisions**
  - o **Establish Escape Routes and Safety Zones**
  - o **Have good eyes on the fire at all times**

Always do a Risk Analysis Before You Engage in any Operation

CA-KNF-0003176
KLAMATH NATIONAL FOREST
Northern California Incident Management Team 1

Incident Objectives	1. Incident Name	2. Date Prepared	3. Time Prepared
	ELK COMPLEX	07/30/07	1735

4. Operational Period

07/31/07 Tuesday Day Shift 0600 - 2000

5. General Control Objectives for the incident (include alternatives)

SAFETY

Safety is a CORE VALUE and is to be integrated into all incident activities.

CONTROL OBJECTIVES

Keep fires:
-- West of Grider Ridge
-- East of Siskiyou Wilderness
-- South of Slater Butte
-- North of Pigeons Roost

Protect private property.
Utilize a direct strategy as weather and opportunities exist; Prepare to implement Contingency Plans as needed.

MANAGEMENT OBJECTIVES:

Provide for positive Community and Tribal Relations.
Mitigate impacts to cultural and natural resources.
Mitigate impacts to local economy.

6. Weather Forecast for Period

See attached spot weather forecast.

7. General Safety Message

Stay aware of the surrounding environment. Current burning conditions and fire behavior are picking up. Post lookouts, and identify escapes routes. Other hazards to be aware of are steep, rocky terrain, rolling materials, and very hazardous driving conditions.

8. Attachments (mark if attached)

☑ Organization List - ICS 203	☐ Incident Map	☑ Fire Behavior Forecast
☑ Div. Assignment Lists - ICS 204	☑ Safety Message	☑ Human Resource Message
☑ Communications Plan - ICS205	☑ Traffic Plan	☐ Phone List
☑ Medical Plan - ICS 206	☑ Camp Map	☑ Unit Log
☑ Air Operations Summary - ICS 220	☑ Fire Weather Forecast	☑ Traffic Map

9. Prepared by (Planning Section Chief)	10. Approved by (Incident Commander)
Gary Risling, PSC2	Kent Swartzlander, IC

ORGANIZATION ASSIGNMENT LIST

1. Incident Name: ELK COMPLEX

2. Date Prepared: 07/30/07

3. Time Prepared: 2215

4. Operational Period: 07/31/07 Tuesday Day Shift 0600 - 2000

Position	Name
5. Incident Commander and Staff	
Incident Commander	KENT SWARTZLANDER
Deputy	DAVE SINCLEAR
Safety Officer	J. MACKENSEN / M. TANZI/ R. VERDIE
Information Officer	Y. JONES/ P. SWANSON/ G. GREER
Human Resource Officer	MIKE BAINES
6. Agency Representative	
Agency	Name
Agency Administrators	JOHN BUEHLER
Resource Advisor	GARR ABBAS
Karuk Tribe	HAROLD TRIPP / NORM GOODWIN
Technical Spec	BOB RONSSE
Cal Fire; Siskyou Sheriff Office: HCVFD	HERB LOVE / JOHN EVANS/ KIRK EDIE
7. Planning Section	
Chief	GARY RISLING
Deputy	MARK WURDEMAN
Resources Unit	L. CHARBONNIER/ R. MUSTATIA (T)
Situation Unit	KEIJI SETA (T)/ BERT BYERS(T)
Documentation Unit	L. CHARBONNIER
Demobilization Unit	GARY DEBOI
Fire Behavior Analyst	HUGH SCANLON
Meterologist	BRETT LUTZ
Training Specialist	DOMINIC PANNO
GIS Specialist	K. FELKER / S. CMEHIL-WARN
Computer Specialist	
8. Logistics Section	
Chief	P. MONTGOMERY / G. MOON (T)
Deputy	MIKE JELLISON
Supply Unit	TOM J CHARLTON
Facilities Unit	FRANK DELCARLO
Ground Support Unit	HARRY ZABEL / JOHN COMACHO
Communications Unit	RICK STONE/ KEN EARLE (T)
Medical Unit	KEN KUMPE
Security Unit	TOM DODD
Food Unit	JAY WESTLAKE

9. Operations Section	
Day Ops/Planning Ops	PETE DUNCAN / ALEC LANE (T)
Planning Ops	PAUL BANNISTER
a.	
Branch Director	
Division A/B/C	SMITH / SALVAGE (T)
Division L/M	STEVENS / LINDSEY (T)
Division N	BARNHART / WEBER (T)
Division O/P	MIKE SANDOVAL
Division S/T	DAVE PERIERA
Division Q/R/U/V	UNSTAFFED
b.	
Branch Director	
Division	
Division	
c.	
Branch Director	
Division	
Division	
Division	
Division	
d. Air Operations Branch	
Air Operations Branch Director	ERICH SCHWAB
Helibase Manager	STEVE BEALL
Air Attack Supervisor	STAN KUBOTA
Air Support Supervisor	
Helicopter Coordinator	
Air Tanker Coordinator	
10. Finance Section	
Chief	LOIS CHARLTON
Deputy	
Time Unit	SISSIE ANZORA
Procurement Unit	PJ VILHAUER
Compensation/Claims Unit	MONA LAKE
Cost Unit	ADELE HENDERSON

Prepared by (Resource Unit Leader)

L. CHARBONNIER

Fire Weather Forecast

FORECAST NO: 34 | **NAME OF FIRE: Elk Complex**

PREDICTION FOR: DAY SHIFT | **UNIT: Klamath NF**

SHIFT DATE: July 31, 2007 | **SIGNED:**

TIME AND DATE **2100 PST** | **Incident Meteorologist**
FORECAST ISSUED: **July 30, 2007** | **Brett T. Lutz**

WEATHER DISCUSSION: High pressure, extending over the area from the Great Basin, will strengthen through Wednesday. Offshore flow this morning, and Tuesday night through Wednesday morning, will lead to poor humidity recoveries from mid elevations to the ridge-tops. Low pressure developing offshore Wednesday will push limited mid-high level moisture northward, leading to a slight chance of PM T-storms.

TUESDAY:

WEATHER: Smoke, mainly south and west of active fires through noon, otherwise Clear and Very Dry.

TEMPERATURES: 97-105 along the Klamath River to 2000ft, 90-96 2000ft to 4000ft, and 86-90 above 4000 ft. ***Trend: Up 1-3.***

MIN HUMIDITY: 13-18% below 2500ft, and 18-28% above 2500ft.
Trend: Little change to down 5%.

20 foot WINDS:

RIDGETOPS- East 10-15mph with gusts 15-20mph through 10am, then becoming North to Northeast 8-12mph. ***Trend: Slight directional change.***

SLOPES/VALLEYS- Down-slope/down-valley 3-7 mph through 9am, then variable 1-3 mph. Wind becoming upslope 6-10 mph in the afternoon, except southwest up-valley 4-8 mph with gusts 9-14mph along the Klamath River late in the afternoon into the evening. ***Trend: No change.***

STABILITY/INVERSION: Inversion near 4500 ft MSL, breaking by noon.
HAINES INDEX: ***2 (Very Low)***

TUESDAY NIGHT: * Moderate offshore flow with poor ridge-top RH recoveries *****
WEATHER*:* Clear and Very Dry. Smoke gathering below the inversion after 10pm.
TEMPERATURES: 50-55 below 2000ft, and 55-63 mid-slopes, and 63-68 from 3000ft up to the ridges.
Trend: Down 3 valleys to up 5 ridges.

MAX HUMIDITY: 55-65% valleys, 35-55% 1500-2500ft, and 25-35% 2500ft to ridges. ***Trend: Down 10-15%***

20 foot WINDS: North to Northeast 10-15mph increasing to 13-18mph with gusts to 22mph on the ridges Upslope 6-10 mph, except southwest up-valley 5-10 mph with gusts 10-15mph along the Klamath River through 8-9pm, then down-slope and down valley 6-12mph. ***Trend: Up 2-4.***

EXTENDED FORECAST: Wed through Fri- Mostly Clear. A slight chance of T-storms Wed PM. Smoke late night-mornings. Highs 96-106 valleys/lower slopes, and 86-96 mid-slopes-5000ft. Lows 52-67. Light north winds, then W Thu-Fri on the ridges. Light slope/valley winds elsewhere. Poor ridge-top recoveries 30-40% Wed night. Daytime RHs 10-20% valleys Wed to 20-30% upper elevations, improving Thursday and Friday.

OBSERVED WEATHER:

Klamath Canyon (930 ft): High Monday 104, Min Humidity 17% @ 1630
Happy Camp (1500 ft): High Monday 99, Min Humidity 17% @ 1545
Titus FRWS17 (3700 ft): High Monday 91, Min Humidity 19% @ 1705
Slater Butte (4670 ft): High Monday 89, Min Humidity 23% @ 1715

FIRE BEHAVIOR FORECAST NO. 27

NAME OF FIRE: **Elk Complex** PREDICTION FOR: **Day Shift**
AGENCIES: **USFS, BLM, BIA,Siskiyou SO, CDF** SHIFT DATE: **07/31/07 (Tuesday)**
TIME AND DATE SIGNED: **H. Scanlon, FBAN**
FORECAST ISSUED: **07/30/07 2100 Hours**

WEATHER SUMMARY: Clear and dry, smoky south and west, with high temps in the upper 80s to 105ºF, lowest RHs in the 13 to 28% range, and winds on the ridge tops northeast 10 – 15, gusts to 20 mph in the morning, remaining north and easterly at 8 - 12 in the afternoon. Klamath River canyon winds upslope and up canyon to 10 MPH by afternoon. See attached fire weather forecast issued 7/30/07 at 2100 hours.

FIRE BEHAVIOR GENERAL:
Fire activity is increasing. The topography is very complex, steep, and rugged. Fuels are primarily brush, plantations, and timber litter, with some rocky areas supporting sparse vegetation. Most fuels are receptive to burning. Short runs occurring where fuel, topography, and weather are in alignment. Rolling material is moving fire down slope. Heavy fuels and snags are the primary carrier of fire. Young plantations with heavy shrub component are resistant to burning. Live fuel moistures in the mid-80% range. The inversion should mix out by noon. Peak burning conditions will start around 1400 and continue thru 2000 hrs.

Fire Behavior – Optimal Alignment

Fuel Type	ROS (ft./min) Fwd.	ROS Flank	ROS Back	FL (ft.)	Spotting (mi.)	pI
Sh3 Mod load shrub, plantations	3 - 6	0 - .4	0 - .2	1 - 3	0.15	66
Tl8 Timber litter	5 - 9	0 - .7	0 - .4	1 - 4	0.19	66

Local Thresholds: These factors in combination with a high ERC may greatly increase fire behavior: 20' wind speed over 7 mph; RH less than 25%; temperature over 81º; ERC over 46. Avg. BI for late-July 64.
Observed ERC/BI Oak Knoll 7-30: 59 / 54 Predicted ERC/BI 7-31: 61 / 55

SPECIFIC:
Divs A,B,C: Interior burn out subsiding, remaining mostly in heavy fuels. Some islands of green may still kick up fire. Areas of direct line and cold trail in Little Grider Creek may show heat from hot roll out into receptive fuels.
Divs L,M,N,O,P: Surface fire with slow spread rates, occasional torching in jackpots. Burning is active in heavy fuels. Rolling material will ignite receptive fuels, making gradual short runs. Conditions for holding and mop-up will be favorable along Titus Ridge. Upslope combining with ridge winds to create eddying along the perimeter, increasing the chance of spotting where jackpots ignite near the line.
Divs S,T: Slow fire advance and heavy fuels burnout through the shift. Burn activity increases at 1400 hours. Burning snags effective at depositing embers downslope, down wind, and laterally. Occasional short runs where fuels, wind, and slope align. The Klamath River tends to be a good barrier to spotting across the canyon.

AVIATION OPERATIONS: Inversion mixing out around noon. Smoky conditions to the southwest of the fire.

SAFETY: Forecast Probability of Ignition is nearing 70%. Expect new fires where embers land in receptive fuels. Think about the relevant Watch Out Situations you may see today: Weather is getting hotter and dryer; Getting frequent spot fires across line.

Sunrise: 0607 Sunset: 2032

Division Assignment List	1. Branch	2. Division/Group Div A / B / C
3. Incident Name ELK COMPLEX	4. Operational Period 07/31/07 Tuesday Day Shift 0600 - 2000	

5. Operations Personnel

Operations Chief	PETE DUNCAN / ALEC LANE (T)	Division/Group Supervisor	MIKE SMITH / ALBERT SAVAGE (T)
Operations Chief		Air Attack Supervisor	STAN KUBOTA
Branch Director		Safety Officer	JIM MACKENSEN

6. Resources Assigned this Period

Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
CRW2IA LOST RIVER	NICK LEE	20	N	Per DIVS	Per DIVS
CREW2 CTS#2	JAMES BENDER	20	N	Per DIVS	Per DIVS
CRW2 BLACK EAGLES 3	ROBERT K BROWN	20	N	Per DIVS	Per DIVS
ENGS/T SRF 2601C	STEVE DAMBRA	26	N	Per DIVS	Per DIVS
WT2 WILLIAMS (E-165)	ARVIL WILLIAMS	1	N	Per DIVS	Per DIVS
WT2 AQUILA #114 (E-166)	MARK HARRIS	2	N	Per DIVS	Per DIVS
WT 2 DARRAH (E-6)	DAVE NICOSON	1	N	Per DIVS	Per DIVS
DOZ2 THOMAS (E-257)	MARK THOMAS	2	N	Per DIVS	Per DIVS
DOZ2 GOLDEN HOOF (E-145)	JESSE TURNER	2	N	Per DIVS	Per DIVS
EMTP	DANIEL REESE	1	N	Per DIVS	Per DIVS
EMTB	ROBERT WALTERS	1	N	Per DIVS	Per DIVS
SOF2	DAVE SARGENTI	1	N	Per DIVS	Per DIVS

7. Control Operations
-- Continue to mop-up 150 feet along control lines.
-- Utilize air support as necessary.
-- COLLECT and BACKHAUL all garbage and un-needed equipment to nearest drop points. Inventory remaining equipment and notify Logistics of drop point locations for backhaul.

8. Special Instructions
-- Road closed from DP10 north to DP38 and DP 10 South To 17N20 and 17N16 intersection.
-- Construct waterbars on all handline and dozer lines as needed.
-- Stay 500 feet or more down stream of any confluence for dipping or drafting operations.
-- Fill watertenders at designated sites only.
-- Crews to use class A foam for initial attack, direct construction, mopup; staying 300 ft away from waterways.
-- Secure all fuel supplies to prevent fuel spills.

9. Division/Group Communications Summary

Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command North	168.7000N	170.9750N		NIRSC	1	NIFC C-1	
Command East	166.6125N	168.4000N		NIRSC	2	NIFC C-4	
Tactical Div/Group	168.0500N	168.0500N		NIRSC	5	NIFC TAC-1	
Air to Ground	165.6000N	165.6000N		NIRSC	11		

Prepared by (Resource Unit Leader)	Approved by (Planning Section Chief)	Date Prepared	Time Prepared
Rita Mustatia (T)	Gary Risling	07/30/07	2205

Division Assignment List	1. Branch	2. Division/Group Div L / M
3. Incident Name ELK COMPLEX	4. Operational Period 07/31/07 Tuesday Day Shift 0600 - 2000	

5. Operations Personnel

Operations Chief	PETE DUNCAN / ALEC LANE (T)	Division/Group Supervisor	STEVENS / LINDSEY (T)
Operations Chief		Air Attack Supervisor	STAN KUBOTA
Branch Director		Safety Officer	JIM MACKENSEN

6. Resources Assigned this Period

Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
CRW1 KLAMATH HS	JOHNNY L CLEM	22	N	Per DIVS	Per DIVS
CRW1 SHASTA LAKE HS	JEFFERY MICHELS	20	N	Per DIVS	Per DIVS
CRW1 PLUMAS HS	JACK SEVELSON	20	N	Per DIVS	Per DIVS
ENG3 BUCHHOLZ	JASON BUCHHOLZ	3	N	Per DIVS	Per DIVS
ENG3 SHF34	EZRA STILES	5	N	Per DIVS	Per DIVS
ENG3 KNF25	MARIO GOMEZ	5	N	Per DIVS	Per DIVS
WT2 DARRAH LOGGING (E-57)	KEITH DARRAH	1	N	Per DIVS	Per DIVS
FOBS	TIM BRADLEY	1	N	Per DIVS	Per DIVS
EMTP	DAN FRANCE	1	N	Per DIVS	Per DIVS
EMTP	JASON PACE	1	N	Per DIVS	Per DIVS
SOF2	RICHARD BROWN	1	N	Per DIVS	Per DIVS
SOF2	JEFF HARTER (t)	1	N	Per DIVS	Per DIVS

7. Control Operations
-- Contine to mop-up and patrol.
-- Prepare to support firing operations as needed.
-- Secure all fuel supplies to prevent fuel spills.

8. Special Instructions
-- SOF2 shared with Division O/P.
-- Construct waterbars on all handline and dozer lines as needed.
-- Stay 500 feet or more down stream of any confluence for dipping or drafting operations.
-- COLLECT and BACKHAUL all garbage and un-needed equipment to nearest drop points. Inventory remaining equipment and notify Logistics of drop point locations.
-- Crews to use class A foam for initial attack, direct construction, mopup; staying 300 ft away from waterways.

9. Division/Group Communications Summary

Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command East	166.6125N	168.4000N		NIRSC	2	NIFC C-4	
Command South	173.0375N	167.3250N		NIRSC	3	NIFC C-12	
Tactical Div/Group	168.6000N	168.6000N		NIRSC	6	NIFC TAC-3	
Air to Ground	165.6000N	165.6000N		NIRSC	11		

Prepared by (Resource Unit Leader)	Approved by (Planning Section Chief)	Date Prepared	Time Prepared
Rita Mustatia (T)	Gary Risling	07/30/07	2235

Division Assignment List	1. Branch	2. Division/Group Div N
3. Incident Name ELK COMPLEX	4. Operational Period 07/31/07 Tuesday Day Shift 0600 - 2000	

5. Operations Personnel

Operations Chief	PETE DUNCAN / ALEC LANE (T)	Division/Group Supervisor	J. BARNHART / E. WEBER(T)
Operations Chief		Air Attack Supervisor	STAN KUBOTA
Branch Director		Safety Officer	JIM MACKENSEN

6. Resources Assigned this Period

Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
CRW1 REDDING HS	JOHN M WOOD	19	N	Per DIVS	Per DIVS
CRW2 FSR 8	JAMES RUST	21	N	Per DIVS	Per DIVS
CRW2 OC 24	JOSEPH KENNEDY	20	N	Per DIVS	Per DIVS
ENGS/T LNF 3615C	DOUG YOUNG	26	N	Per DIVS	Per DIVS
FELB	CHUCK LEWIS	1	N	Per DIVS	Per DIVS
FALC - NZ MOD #2	STEWART/STACHER	2	N	Per DIVS	Per DIVS
INCS	COURTS, PHILLIP	1	N	Per DIVS	Per DIVS

7. Control Operations
-- Continue to patrol and mop up 300 feet from fire edge.
-- Prepare to support aerial firing operations as needed.
-- Secure all fuel supplies to prevent fuel spills.

8. Special Instructions
-- Construct water bars on all hand and dozer line as needed. -- Utilize fallers to snag as appropriate.
-- Stay 500 feet or more down stream of any confluence for dipping or drafting operations.
-- Fill watertenders at designated sites only. -- Identify roads that need to be brushed through DIVS.
-- Crews to use class A foam for initial attack, direct construction, mopup; staying 300 ft away from waterways.
-- COLLECT and BACKHAUL all garbage un-needed material and equipment to nearest drop points. Inventory remaining equipment and notify Logistics of drop point locations for backhaul.

9. Division/Group Communications Summary

Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command North	168.7000N	170.9750N		NIRSC	1		
Command East	166.6125N	168.4000N		NIRSC	2		
Tactical Div/Group	166.7250N	166.7250N		NIRSC	7	BLM TAC-1	
Air to Ground	165.6000N	165.6000N		NIRSC	11		

Prepared by (Resource Unit Leader)	Approved by (Planning Section Chief)	Date Prepared	Time Prepared
Erin Ernst (T)	Gary Risling	07/30/07	2220

Division Assignment List	1. Branch	2. Division/Group Div O / P
3. Incident Name ELK COMPLEX	4. Operational Period 07/31/07 Tuesday Day Shift 0600 - 2000	

5. Operations Personnel

Operations Chief	PETE DUNCAN / ALEC LANE (T)	Division/Group Supervisor	MICHAEL SANDOVAL
Operations Chief		Air Attack Supervisor	STAN KUBOTA
Branch Director		Safety Officer	JIM MACKENSEN

6. Resources Assigned this Period

Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
CRW1 BIG BEAR HS	JIMMY AVILA	20	N	Per DIVS	Per DIVS
CRW1 BRECKENRIDGE HS	ADAM L SANDERS	18	N	Per DIVS	Per DIVS
CRW2 OTTAWA #1	ROBERT GARRISON	20	N	Per DIVS	Per DIVS
CRW2IA SALYER	ROBERT J RATHJEN	20	N	Per DIVS	Per DIVS
CRW2 OC 25	DONNA A BRETON	19	N	Per DIVS	Per DIVS
ENG S/T PNF 3660C	CHEVEYO MUNK	27	N	Per DIVS	Per DIVS
WT2 DARRAH LOGGING (E-27)	KEITH PIERCE	1	N	Per DIVS	Per DIVS
CHIP BURKE (E-293)	TIM BURKE	1	N	Per DIVS	Per DIVS
CHIP KARUK (E-295)	WILLIAM TRIPP	3	N	Per DIVS	Per DIVS
FOBS	CRAIG SNIDER	1	N	Per DIVS	Per DIVS
FOBS	MATTHEW WATSON (T)	1	N	Per DIVS	Per DIVS
SOF2	R. BROWN / J. HARTER(T)	2	N	Per DIVS	Per DIVS
EMTP	PHILLIP CRAMBELT	1	N	Per DIVS	Per DIVS
EMTP	RICH PORCELLI	1	N	Per DIVS	Per DIVS

7. Control Operations

-- Continue to mop-up and patrol 200 feet in along contol lines where safe.
-- Chip 08 Road from DP5 to DP 51

8. Special Instructions

-- Construct water bars on hand and dozer line as needed.
-- SOF2 shared with DIVS L/M
-- Stay 500 feet or more down stream of any confluence for dipping or drafting operations.
-- Crews to use class A foam for initial attack, direct construction, mopup; staying 300 ft away from waterways.
-- COLLECT and BACKHAUL all garbage and un-needed material and equipment to nearest drop points. Inventory remaining equipment and notify Logistics of drop point locations.

9. Division/Group Communications Summary

Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command East	166.6125N	168.4000N		NIRSC	2		
Command South	173.0375N	167.3250N		NIRSC	3		
Tactical Div/Group	166.7750 N	166.7750 N		NIRSC	8	BLM TAC-2	
Air to Ground	165.6000N	165.6000N		NIRSC	11		

Prepared by (Resource Unit Leader)	Approved by (Planning Section Chief)	Date Prepared	Time Prepared
Erin Ernst (T)	Gary Risling	07/30/07	2208

Division Assignment List	1. Branch	2. Division/Group Div S / T
3. Incident Name ELK COMPLEX	4. Operational Period 07/31/07 Tuesday Day Shift 0600 - 2000	

5. Operations Personnel

Operations Chief	PETE DUNCAN / ALEC LANE (T)	Division/Group Supervisor	DAVID M PEREIRA
Operations Chief		Air Attack Supervisor	STAN KUBOTA
Branch Director		Safety Officer	JIM MACKENSEN

6. Resources Assigned this Period

Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
CRW1 TAHOE HS	TODD WHITE	20	N	Per DIVS	Per DIVS
CRW1 SALMON RIVER HS	JAMES L ALLEN	21	N	Per DIVS	Per DIVS
CREW - T2IA - MAD RIVER	JOHN MARTINEZ	19	N	Per DIVS	Per DIVS
ENGINE S/T - T3 - 3630C	WARLICK/ GRAHAM	27	N	Per DIVS	Per DIVS
ARCH	KATHY MCCOVEY	1	N	Per DIVS	Per DIVS
INCS	NORMAN GOODWIN	1	N	Per DIVS	Per DIVS
INCS	LAWRENCE WILLIAMS	1	N	Per DIVS	Per DIVS
INCS	GABRIEL MONTGOMERY	1	N	Per DIVS	Per DIVS
SOF2	RONALD W TAYLOR	1	N	Per DIVS	Per DIVS
SOF2 (T)	THOMAS KELLY	1	N	Per DIVS	Per DIVS
FOBS	EMERY GLUCK	1	N	Per DIVS	Per DIVS
ARCH	TROTTER, ROSS	1	N	Per DIVS	Per DIVS
ARCH	JULIN, KENT	1	N	Per DIVS	Per DIVS

7. Control Operations

-- Scout out area. Mop up or improve burn out as needed
-- ARCH and INCS to coordinate location with OPS.

8. Special Instructions

-- Construct water bars on hand and dozer line as needed.
-- Stay 500 feet or more down stream of any confluence for dipping or drafting operations.
-- Fill watertenders at designated sites only.
-- Be aware of cultural concerns in area.
-- Crews to use class A foam for initial attack, direct construction, mopup; staying 300 ft away from waterways.
-- COLLECT and BACKHAUL all garbage and un-needed material nearest drop points. Inventory remaining equipment and notify Logistics of drop point locations.

9. Division/Group Communications Summary

Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command North	168.7000N	170.9750N		NIRSC	1		
Command South	173.0375N	167.3250N		NIRSC	3		
Tactical Div/Group	168.2500N	168.2500N		NIRSC	9	BLM TAC-3	
Air to Ground	165.6000N	165.6000N		NIRSC	11		

Prepared by (Resource Unit Leader)	Approved by (Planning Section Chief)	Date Prepared	Time Prepared
Erin Ernst (T)	Gary Risling	07/30/07	2212

Division Assignment List	1. Branch	2. Division/Group Div O / R / U / V
3. Incident Name ELK COMPLEX	4. Operational Period 07/31/07 Tuesday Day Shift 0600 - 2000	

5. Operations Personnel

Operations Chief	PETE DUNCAN / ALEC LANE (T)	Division/Group Supervisor	
Operations Chief		Air Attack Supervisor	STAN KUBOTA
Branch Director		Safety Officer	JIM MACKENSEN

6. Resources Assigned this Period

Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
UNSTAFFED					

7. Control Operations
-- Patrol by Air.

8. Special Instructions

-- Stay 500 feet or more down stream of any confluence for dipping or drafting operations.
-- Fill watertenders at designated sites only.
-- Crews to use class A foam for initial attack, direct construction, mopup; staying 300 ft away from waterways.
-- COLLECT and BACKHAUL all garbageand any un-needed material and equipment to nearest drop points. Inventory remaining equipment and notify Logistics of drop point locations.

9. Division/Group Communications Summary

Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command	173.0375N	167.3250N		NIRSC	3		
Tactical Div/Group	173.9875N	173.9875N		NIRSC	10	R5 TAC-6	
Air to Ground	165.6000N	165.6000N		NIRSC	11		

Prepared by (Resource Unit Leader)	Approved by (Planning Section Chief)	Date Prepared	Time Prepared
Erin Ernst (T)	Gary Risling	07/30/07	2215

INCIDENT RADIO COMMUNICATIONS PLAN			1. INCIDENT NAME ELK COMPLEX		2. DATE / TIME PREPARED 07/30/07 2100	3. OPERATIONAL PERIOD 07/31/07 0600-2000
4. BASIC RADIO CHANNEL UTILIZATION						
SYSTEM / CACHE	CHANNEL	FUNCTION	FREQUENCY		ASSIGNMENT	REMARKS
NIRSC	1	NIFC C-1	Rx Tx	168.7000 N 170.9750 N	COMMAND NORTH	
NIRSC	2	NIFC C-4	Rx Tx	166.6125 N 168.4000 N	COMMAND EAST	
NIRSC	3	NIFC C-12	Rx Tx	173.0375 N 167.3250 N	COMMAND SOUTH	
NIRSC	4	KNF ORANGE	Rx Tx	168.7750 N 170.5750 N	FOREST NET RPT	USE TONE 2, 4, 11
NIRSC	5	NIFC TAC-1	Rx Tx	168.0500 N 168.0500 N	DIV A/B/C	
NIRSC	6	NIFC TAC-3	Rx Tx	168.6000 N 168.6000 N	DIV L/M	
NIRSC	7	BLM TAC-1	Rx Tx	166.7250 N 166.7250 N	DIV N	
NIRSC	8	BLM TAC-2	Rx Tx	166.7750 N 166.7750 N	DIV O/P	
NIRSC	9	BLM TAC-3	Rx Tx	168.2500 N 168.2500 N	DIV S/T	
NIRSC	10	R5 TAC-6	Rx Tx	173.9875 N 173.9875 N	UNASSIGNED	
NIRSC	11	AIR TO GROUND	Rx Tx	165.6000 N 165.6000 N	ALL AREAS A/G	
NIRSC	12		Rx Tx			
NIRSC	13	R5 TAC-4	Rx Tx	173.9125 N 173.9125 N	MEDICAL EVAC	FOR MEDICAL EVAC USE ONLY
NIRSC	14	AIR GUARD	Rx Tx	168.6250 N 168.6250 N	AIR GUARD	EMERGENCY USE ONLY
NIRSC	15		Rx Tx			
NIRSC	16	AIR GUARD	Rx Tx	168.6250 N 168.6250 N	AIR GUARD	EMERGENCY USE ONLY
ICS 205 9/86 NFES 1330	5. PREPARED BY: (COMMUNICATIONS UNIT) *KEN EARLE COM UNIT LEADER (T)*					

AIR OPERATIONS SUMMARY

PREPARED BY: Erich Schwab **PREPARED DATE/TIME: 7/30/2007 2000**

1. INCIDENT NAME: Elk Complex	2. OPERATIONAL DATE: 7/31/2007 START TIME: 0730 END TIME: 2100 SUNRISE: 0604 SUNSET: 2035

3. REMARKS:	4. MEDEVAC A/C:	5. TFR A-9
1) TFR in place over Airport. 2) Watch for intruder aircraft within fire perimeters. 3) Hazards – snags, wires in rivers and creeks , turbulence, multiple aircraft 4) Environmental: Avoid confluence of creeks to river (300 feet); no retardant within 300 feet of any water; need approval to use Clear Creek, drop only on East side; stay 1500 feet from confluence of Indian Ck., Ukonom Ck.; avoid dipping from Independence Bridge to Ferry Point. Special note! Watch for deteriorating visibility! Call off mission if in doubt.	LifeFlight where appropriate (see medical plan) H-503 Medivac ship	Radius: 5 nm Radius: 3nm Altitude: 9500 ft Altitude: 9500ft Center point: Center point: Lat. 41 47.25 Lat. 41 38.5 Long. 123 22.33 Long. 123 16.6

6. PERSONNEL	Phone	7. FREQUENCIES	AM	FM	8. FIXED-WING	
AOBD: Erich Schwab	530-517-2026	AIR/AIR	122.225	166.3125	Air tankers	Request through Air Attack
ASGS:						
HEBM: Steve Beall	530-493-1779	AIR/GROUND	165.600	Aerial ignition 166.3625	Lead planes	Request through Air Attack
ATGS: Stan Kubota	530-949-9466	Command 2 Orange	RX: 168.775 TX: 170.575			
HLCO :		Command 1	RX:166.6125 TX: 168.400			
		DECK FREQ:	163.100			
Happy Camp Helibase	530-493-1779	HC UNICOM	122.900			

9. HELICOPTERS

FAA N#	TY	MAKE/MODEL	BASE	AVAIL	START	REMARKS	FAA N#	TY	MAKE/MODEL	BASE	AVAIL	START	REMARKS
HT-781	1	Sky Crane	HC	0730	0800	Water Drops Bucket	*827MW*	2	Sikorsky 58T	HC	0730	0800	Limited
HT767	1	S-61	HC	0730	0800	Water Drops Tank	726	3	Bell 206B3	HC	0730	0800	Standard
H-507	2	Cobra	HC	0730	0800	Available at Scott Valley as Air Attack	H-503	3	Bell 407	HC	0730	0800	Standard

Priority	Missions	Time		
1	Protect town of Happy Camp, Grider Fire. Top priority!		0800	
1	Support burning operation on Grider Fire.		0800	
2	Recons and mapping with type 3 helicopters		0830	
2	Initial Attack with H-503, additional support as needed		As needed	
3	Support other fires as needed		As needed	
	Air Attack available as needed.		As needed	
	For helitack personnel, manage flight time to avoid 6/36		As needed	
	Line personnel notify Division with needs and visibility reports		As needed	
	Air/Ground Frequency 166.3625 is for aerial ignition operations ONLY			

ELK COMPLEX - INCIDENT RISK ANALYSIS (215a)

DIV	HAZARDS / ISSUES	MITIGATIONS / WARNINGS / REMEDIES
ALL	**SNAG HAZARDS**	• Follow Hazard Tree Safety Guidelines (IRPG p. 80). • Limit number of personnel around snags and their exposure time; fallers must be qualified for trees being fallen. • Be especially alert around snags during wind events and after dark. • Check overhead for dead branches in sleeping areas. • **Maintain Situational Awareness!**
ALL	**DRIVING HAZARDS**	• Drive defensively at all times, drive w/headlights on, use chock blocks, use backers. • Coordinate movement of Day/Night Shift resources with Division Supervisor's • Exercise caution when driving on "out-sloped" roads. • Be alert for wildlife; slow down on washboard surfaces. • Increase following distances on dusty roads. Slow down when you meet opposing traffic. Be able to stop within one half of the visible distance on blind curves. • Watch for Deer/Elk along Hwy. 96 • **Maintain Situational Awareness!**
ALL	**FIRING OPERATIONS**	• A written guideline shall be prepared and approved for major burning ops. • Conduct thorough briefing for all personnel (inside rear cover IRPG). • Qualified personnel for all assignments. Trainees to have qualified trainers. • Utilize Risk Mgmt. Process (IRPG p. 1) for implementing the plan. • Required PPE to be worn by all personnel involved. • Establish LCES prior to implementing burning operations (IRPG p. 6). • Assign an over-all Firing Boss to coordinate ignitions when simultaneous burning operations are planned for multiple locations.
ALL	**AIRCRAFT OPERATIONS**	• Use risk analysis to determine if any given flight is necessary. • Keep personnel out of drop zones. • Use air-to-ground freq. to communicate with aircraft. • Use concise statements & clock directions when directing aircraft. • Maintain good separation between ground forces & aerial ignition. • Avoid "heli-mopping". Eliminate unnecessary pilot exposure.
ALL	**FATIGUE**	• Be alert for signs of fatigue and take breaks as necessary. Maintain 2:1 work/rest ratio. Monitor incoming resources for level of fatigue.
ALL	**HYDRATION**	• Encourage drinking water before, during and after shifts, up to 1.5 gal. • Be alert for signs of heat stress in yourself and others.
M & N	**RE-BURN**	• High Re-burn potential in these Divisions • Keep a good lookout in place • Have good communications established • Identify escape routes and safety zones
ALL	**BEARS**	• Pick up and remove all trash from fire line. Don't allow food storage in tents. Manage trash in spike camps to avoid attracting bears.
ALL	**FOOT TRAVEL**	• When walking through steep, rocky, and possibly wet terrain, watch footing and maintain proper spacing. • Watch for over-head hazards, carry tools downhill side. • Treat "hot spots" on feet before they become blisters..
ALL	**POTENTIAL FOR EXTREME FIRE BEHAVIOR**	• Review "Severe Fire Behavior Potential" (IRPG p.76). • Monitor current weather conditions and forecasts. Make sure all personnel receive thorough briefings every shift. • Maintain adequate escape routes and safety zones. Set trigger points. • **Maintain Situational Awareness!**
07/31/2007 DAY		**PREPARED: 07/30/2007 at 1800** — **Prepared by Jim Mackensen SOF2**

Today's discussion is from the First Aid / Health Category.

Six Minutes Home Page

HEAT DISORDERS

Heat becomes a problem when humidity, air temperature, and radiant heat combine with hard work to raise body temperature beyond safe limits. Sweat is your main defense. Everyone on the fireline must understand the importance of drinking water often.

- There are three forms of heat stress.
    - Heat cramps
    - Heat exhaustion
    - Heat stroke
- The mildest is heat cramps. Heat cramps can progress to heat exhaustion and eventually heat stoke.
- Heat cramps are involuntary muscle contractions caused by failure to replace fluids or electrolytes, such as sodium and potassium.
    - Cramps can be relieved with stretching and by replacing fluids and electrolytes.
    - Heat cramps can be prevented by maintaining an adequate intake of water, electrolyte replacement drinks and by eating fresh fruits and vegetables.
- Heat exhaustion is characterized by:
    - Weakness
    - Extreme fatigue
    - Nausea
    - Headaches
    - Wet, clammy skin
- Heat exhaustion is caused by inadequate fluid intake. Treat heat exhaustion by resting in a cool environment and replacing fluids and electrolytes.
- Heat stroke is caused by failure of the body's heat controls. Sweating stops and the body temperature rises.
- Heat stroke is characterized by:

- Hot, often dry skin
- Body temperature above 105.8 degrees Fahrenheit
- Mental confusion
- Loss of consciousness, convulsions, or even coma

- Heat stroke is a medical emergency. Brain damage and death may result if treatment is delayed. Begin rapid cooling with ice or cold water, fanning the victim to promote evaporation. For rapid cooling, partially submerge the victim's body in cool water. Treat for shock if necessary.

- You can prevent the serious consequences of heat disorders by improving your level of fitness and becoming acclimated to the heat. Maintaining a high level of aerobic fitness is one of the best ways to protect against heat stress. The fit worker has a well-developed circulatory system and increased blood volume. Both are important to regulate body temperature. Fit workers start to sweat sooner, so they work with a lower heart rate and body temperature. They adjust to the heat twice as fast as the unfit worker.

References:

Standards for Fire and Aviation Operations, BLM, www.fire.blm.gov/Standards/redbook.htm

Fitness and Work Capacity--Second Edition

MEDICAL PLAN	1. INCIDENT NAME Elk	2. DATE PREPARED 07-31-07	3. TIME PREPARED 2000hrs	4. OPERATIONAL PERIOD 7/31/07 0600-2000

5. INCIDENT MEDICAL AID STATIONS

MEDICAL AID STATIONS	LOCATION	PARAMEDICS	
		YES	NO
Frontline Medical	Elk ICP	XX	

6. TRANSPORTATION

NAME	ADDRESS	PHONE	PARAMEDICS	
			YES	NO
Happy Camp Ambulance Medic 23	Happy Camp	530-493-2643		XX
Mercy Flight	Medford, OR	**911**/530-842-7066	XX	
CHP H-14, H-16 (Rescue Hoist)	Redding, CA	**911**/530-842-7066	XX	
REACH	Redding, CA	**911**/530-842-7066	XX	

7. HOSPITALS

NAME	ADDRESS	TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
		AIR	GRND		YES	NO	YES	NO
Fairchild Medical Center	444 Bruce Street, Yreka CA	15 min	1.5 hr	530-842-4121		X		X
Rouge Valley Medical	2525 Barnet, Medford OR	20 min	2.5 hr	541-608-4144	X			X
Shasta Regional Medical Center	1100 Butte, Redding CA	30 min	3 hr	530-243-4042	X			X
UC Davis Burn Center	2315 Stockton Blvd., Sacramento CA	2 hr	6 hr	916-734-3544 or Blue Net 155.340	X		X	
Mercy Med Center Level 2 Trauma	2175 Rosaline Ave, Redding CA	30 min	3 hr	530-225-7201	X			X

Two EMT Paramedics with USAR qualifications and a complement of rope rescue equipment are assigned to the incident. Request "Elk Rescue Group" through Communications. SOF Mackensen will oversee all technical rope rescue operations of the rescue group

8. MEDICAL EMERGENCY PROCEDURES

- In the event of a line medical incident, initiate care with available resources and notify Division Supervisor.
- The Division Supervisor and/or Line SOF shall determine if the injury can be handled with available resources and recommend the most appropriate method of transportation (Air/Ground).
- For serious or life threatening injuries, the Division Supervisor and or Branch Director shall contact the Communications Unit to advise the nature and location of the incident and request appropriate additional resources.
- The Communications Unit shall limit all non essential traffic on command by declaring a "Medical Emergency" and shall then notify the Medical Unit, Safety Officer, and Operations Section Chief of the incident.
- The Division Supervisor shall coordinate the incident and direct necessary actions.

√

□ Patient 1 of_____

□ Emergency_____ Non Emergency _____

□ Is a helicopter required for transportation?

Yes____ No____

□ Location_____

Lat_____ Long _____

□ Age_____ Sex_____ Weight_____

□ Severity: Minor____ Delayed____

Immediate____

□ Chief Complaint_____

□ Any additional resources required_____

ICS 206	9. PREPARED BY (MEDICAL UNIT LEADER) Ken Kumpe MEDL	10. REVIEWED BY (SAFETY OFFICER) Jim Mackensen SOF2

Injury or Incident Communications Protocol

Notify the Communications Unit (ICP) on Command Channel

Provide the following information - Do not transmit the injured persons name

Location_____

Situation_____

_____

Any special equipment required_____

_____

Number of injured _____ Type of injuries_____

Immediate transport required: Yes No

Best method: Ambulance Helicopter Vehicle

Closest pick up point (DP, Helispot)_____

Radio procedures for Communications Unit at ICP

1. Clear the Command or other appropriate channel for Emergency traffic
2. Communications unit will notify the DIVS, OSC, SOF, Med Unit Leader and IC. IC will notify PSC, LSC and PLAN OPS if declaring “Incident with-in an Incident.”
3. Notify Air OPS if air transport is requested

Additional Patient Information:

PATIENT #1

Age_____ Gender_____ Agency/Position_____

LOC_____ Vital Signs_____

Injury_____

Weight _____ Medical History/Allergies _____

PATIENT #2

Age_____ Gender_____ Agency/Position_____

LOC_____ Vital Signs_____

Injury_____

Weight _____ Medical History/Allergies _____

HUMAN RESOURCE MESSAGE

My name is Mike Baines and I am the Human Resource Specialist (HR SP) assigned to this incident.

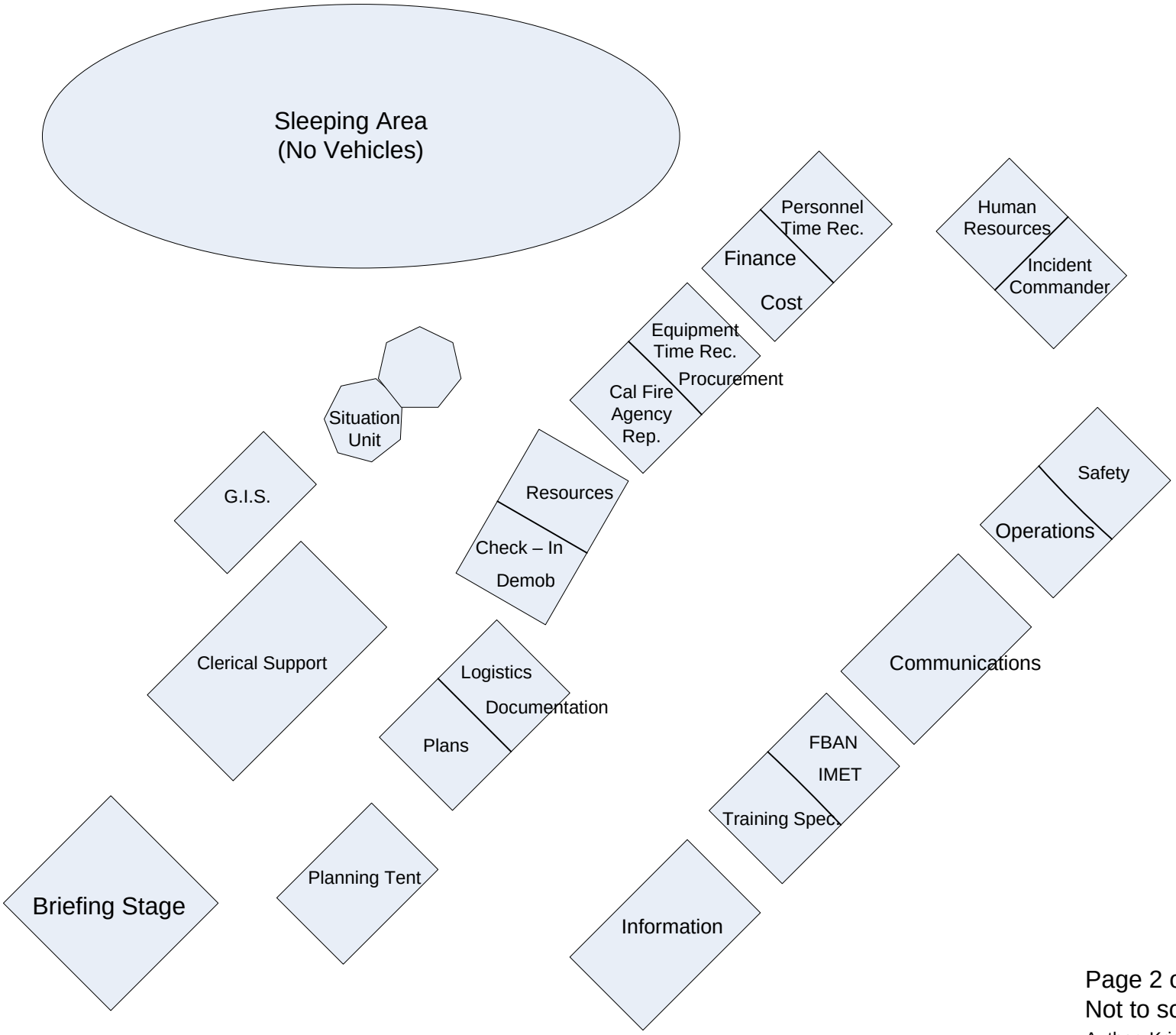
I am here to help provide a positive work environment, to support cultural diversity and awareness, and to promote civil rights for everyone involved with this incident.

I am available anytime and am willing to listen to any concern or comment you may have, if I am unable to help, I will do my best to find someone who can.

If there is anyway I can assist you, please do not hesitate to contact me.

Your Human Resource Specialist,
Mike Baines

Elk Complex ICP Map

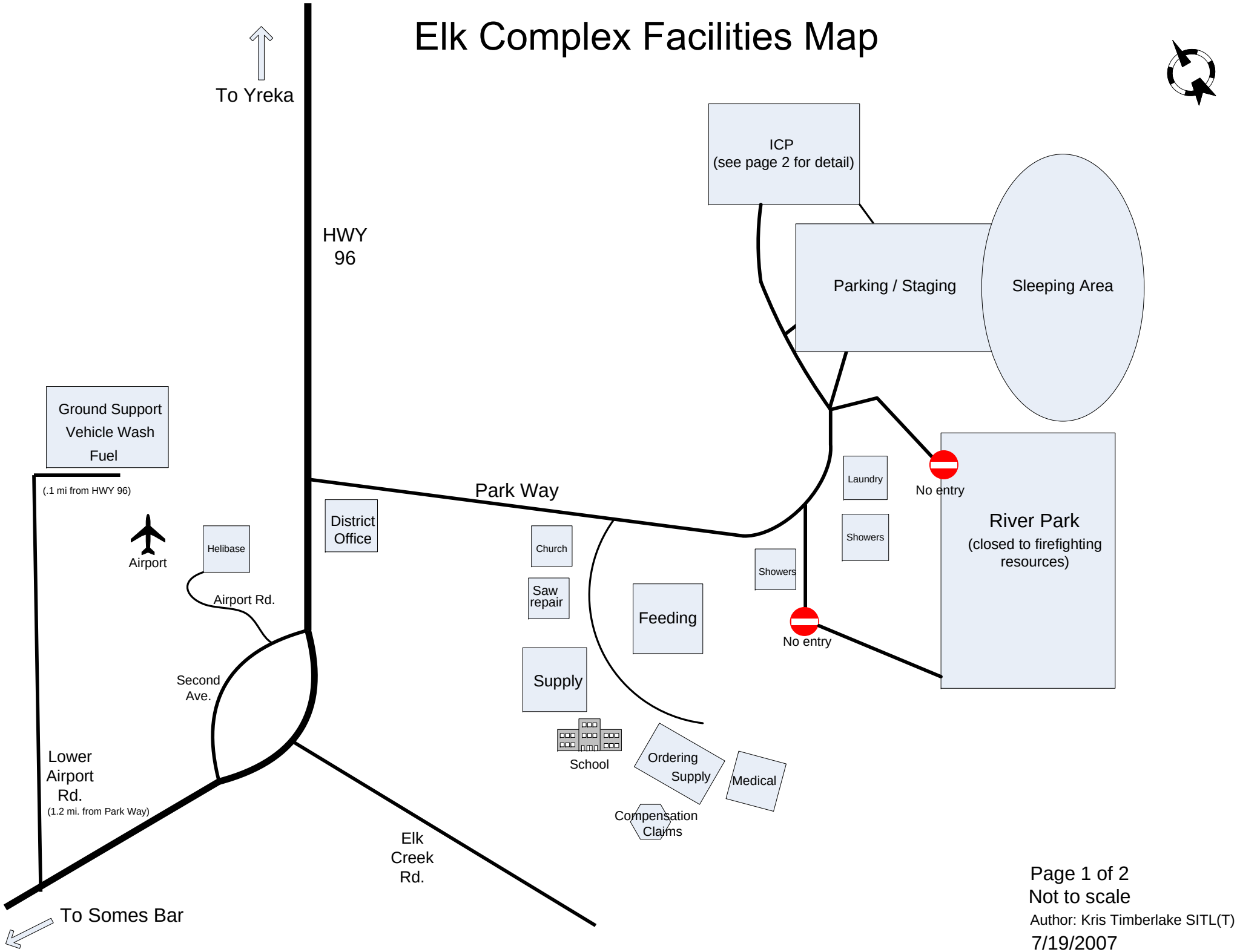


Not to scale

Author: Kris Timberlake SITL(T)

7/23/2007

Elk Complex Facilities Map



Not to scale

Author: Kris Timberlake SITL(T)

7/19/2007

FIRE SUPPRESSION REPAIR PLAN

The following guidelines are based on the approved Elk Complex Fire Suppression Repair Plan. Full copies of the plan are available for review in Plans, and Resource Advisors are available for questions.

OBJECTIVES

- Minimize surface and gully erosion.
- Minimize sediment delivery to stream channels.
- Restore conditions to pre-fire drainage patterns.

SPECIAL PROVISIONS

- Motorized equipment will be thoroughly cleaned to prevent noxious weed seeds from entering National Forest Lands.
- Materials used in repair work, i.e., straw, mulch, seed etc. will be certified noxious weed free.
- No repair work shall commence at heritage resource sites without consultation with the archaeologist.

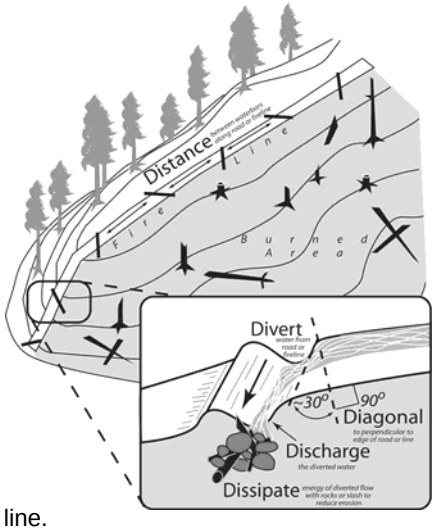
GENERAL GUIDELINES

Hand and Dozer Lines

- Install and construct water bars on lines as per the following guidelines, or as directed /marked by the Rehab Team. See attached insert

Fireline Slope	Maximum Spacing (ft)
1-6%	300
7-9%	200
10-14%	150
15-20%	90
21-40%	50
41-60%	25

Note: Modify spacing to take best advantage of rocks, brush clumps and natural drainage as discharge outlets and to avoid unstable terrain.



- Where lines cross hiking trails, remove suppression debris, rocks, brush and re-establish the trail subgrade and tread.
- Where short-cutting between trails has occurred, construct barriers with native material.
- Pick up and remove all garbage, flagging, litter and unneeded equipment.
- Breach trenches approximately every 100 feet in logical locations such as dips in the line.
- **Dozer Lines in Defense Zones –** slash will be piled on the unburned side of the line dozer line for later burning. **Do not spread organic material across the line.**
- **Dozer lines in all other areas –** break up or flatten slash on the unburned side of the dozer line. **Do not spread organic material across the line.**
- Where lines cross drainages, loose soil and woody debris should be removed 15 feet on both sides to restore the channel and to ensure that the material will not roll back into the channel.

Trail and Road Repair

- All system roads used for fire suppression will be graded (with a road grader) soon after suppression activities cease.
- All roads opened and bladed with a dozer will be graded using a grader to remove the outside berm and restore rolling dips. Bermed soil will not be sidecast.
- Reestablish and repair all drainage structures to pre-fire or hydrologically self-maintaining conditions.
- Channel crossings will be returned to pre-fire conditions. Remove new fill material and restore channel to it's natural shape. Leave exiting culverts.

Camps and Drop Points

- Pull back brush, berms, rocks and spread over site. Blend site with natural surroundings.
- Remove all flagging, garbage, litter and unneeded equipment.
- Restore sites to pre-fire conditions. Comply with all conditions of any Land Use Agreements.

TRAINING SPECIALIST MESSAGE

Wayne Smetanka is heading home.

The new Training Specialist is
Dominic Panno

Wayne has passed on all the records for the trainees presently working on the Elk Creek Complex.

If you are working on a
Position Task Book while on this incident.
Please contact the
Training Specialist as soon as possible.

The Training Unit is at ICP, second trailer on the right.

Dominic Panno
Training Specialist

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	
Time	Major Events
9. Prepared by (Name and Position)	