

# **Incident Action Plan**

## **Kyburz Fire**

**CA-ENF-16230**

**P5HPW2**




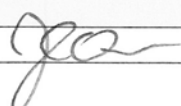
**EXTENDED**

**DAY SHIFT**

**July 13 to 17, 2013**

**0800 to 1800**

INCIDENT OBJECTIVES	1. Incident Name Kyburz	2. Date 7/12/2013	3. Time 16:00									
4. Operational Period <p style="text-align: center;">7/13 to 7/17/2013 0800 to 1800</p>												
5. General Control Objectives for the Incident (include alternatives) <b>MANAGEMENT OBJECTIVES</b> <ul style="list-style-type: none"> <li>• <b>Ensure firefighter and public safety in all incident activities. Adhere to all safety standards and implement appropriate risk analysis.</b></li> <li>• <b>Establish and maintain communications and relationships with media outlets, cooperating agencies, state and local officials and communities.</b></li> <li>• <b>Minimize adverse impact to natural and cultural resources in coordination with District representatives.</b></li> <li>• <b>Effectively manage incident costs by implementing strategies and tactics that indicate a high probability of success.</b></li> <li>• <b>Continue the demobilization of surplus resources.</b></li> </ul> <b>OPERATIONAL OBJECTIVES</b> <ul style="list-style-type: none"> <li>• <b>Keep fire within containment lines.</b></li> <li>• <b>Continue fire suppression repair activities in conjunction with incident resource advisors.</b></li> </ul>												
6. Weather Forecast for Period <p style="text-align: center;"><b>See attached forecast</b></p>												
7. General Safety Message <p style="text-align: center;"><b>See attached safety message</b></p>												
8. Attachments (mark if attached) <table border="0" style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> Organization List - ICS 203</td> <td><input checked="" type="checkbox"/> Medical Plan - ICS 206</td> <td><input checked="" type="checkbox"/> Weather</td> </tr> <tr> <td><input checked="" type="checkbox"/> Div. Assignment Lists - ICS 204</td> <td><input checked="" type="checkbox"/> Incident Map</td> <td><input checked="" type="checkbox"/> Safety Message</td> </tr> <tr> <td><input checked="" type="checkbox"/> Communications Plan - ICS 205</td> <td><input checked="" type="checkbox"/> Traffic Plan</td> <td><input checked="" type="checkbox"/> LCES Worksheet</td> </tr> </table>				<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"/> Safety Message	<input checked="" type="checkbox"/> Communications Plan - ICS 205	<input checked="" type="checkbox"/> Traffic Plan	<input checked="" type="checkbox"/> LCES Worksheet
<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"/> Safety Message										
<input checked="" type="checkbox"/> Communications Plan - ICS 205	<input checked="" type="checkbox"/> Traffic Plan	<input checked="" type="checkbox"/> LCES Worksheet										
9. Prepared by (Planning Section Chief)	10. Approved by (Incident Commander)  ICT3											

ORGANIZATION ASSIGNMENT LIST			9. Operations Section		
1. Incident Name  Kyburz			Day Ops Chief		Brian Ebert
			Night Ops Chief		
2. Date  7/12/2013		3. Time  17:30		Planning Ops	
4. Operational Period  7/13 to 7/17/2013  0800 to 1800			a. Branch I – Division/Groups		
Position			Name		
5. Incident Commander and Command Staff			Branch		
Incident Commander		Dave Pereira / Kyle Jacobson (t)		Division/Group	
Deputy IC				Division/Group	
Liaison Officer				Division/Group	
Safety Officer		Dave Marion		Division/Group	
Information Officer		Robyn Woods		Division/Group	
			b. Branch II – Division/Groups		
6. Agency Representative			Branch		
Agency		Name		Division/Group	
Agency Admin		Duane Nelson		Division/Group	
Agency Admin Rep				Division/Group	
Agency Admin Rep				Division/Group	
Lead Resource Advisor		Cathy Bounds / Eric Nicita		Division/Group	
			c. Branch III – Division/Groups		
7. Planning Section			Branch		
Chief			Division/Group		
Deputy			Division/Group		
Resources Unit			Division/Group		
Situation Unit			Division/Group		
Documentation Unit			Division/Group		
Demobilization Unit			Division/Group		
Fire Behavior Unit			Division/Group		
Incident Meteorologist			Division/Group		
Technical Specialist			Division/Group		
Training Specialist			Division/Group		
GISS			Division/Group		
HRSP			Division/Group		
Status Check-In			Division/Group		
8. Logistics Section			d. Air Operations Branch		
Chief		Ken Kumpe		Air Operations Branch Director	
Deputy				Air Support Group Supervisor	
Supply Unit		Dave Allicia		Air Tactical Group Supervisor	
Base Camp Manager		Eric Ferrell		Helitack Base Manager	
Ground Support Unit		Merle Drucker			
Equipment Manager		Dave Markin			
Equipment Inspector		Dan Stypa			
Incident Ambulance		Eldorado County Medic 289			
			10. Finance Section		
			Chief		
			Time Unit Leader		Debbie Parlin
			Personnel Time Recorder(t)		Lydett Flores
			Cost Unit		
			Compensation / Claim Unit		Scott Parsons
			IBA		
			Prepared By: John Owen – RESL – NorCal Team 2 		

## FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 7	TYPE OF FIRE: Wildland Fire
FIRE NAME: Kyburz	OPERATIONAL PERIOD: 0800-1800 07/13-17/2013
DATE ISSUED: July 12, 2013	TIME ISSUED: 1800
UNIT: Eldorado NF, Placerville RD	SIGNED: /s/ Ken Larson FBAN

\*\*\*\*\*DISCLAIMER: ANY INFORMATION OVER 48 HOURS OLD MAY NOT BE RELIABLE\*\*\*\*\*

WEATHER SUMMARY: See attached Spot Weather Forecast

Saturday, 07/13: Sunny. Maximum Temperature 80-85°. Minimum RH 14-18%. 20 ft. slope/valley winds 6-11 mph, local gusts to 25; ridgetop winds S 10 mph, local gusts to 25.

Sunday, 07/14: Sunny. Maximum Temperature 82-87°. Minimum RH 16-20%. 20 ft. slope/valley winds 6-11 mph, local gusts to 25; ridgetop winds S 10 mph, local gusts to 25.

Monday, 07/15: Sunny. Maximum Temperature 80-85°. Minimum RH 18-22%. 20 ft. slope/valley winds 8-13 mph, local gusts to 25; ridgetop winds S 13 mph, local gusts to 25.

Tuesday, 07/16: Sunny. Maximum Temperature 82-87°. Minimum RH 11-16%. 20 ft. slope/valley winds 9-14 mph, local gusts to 25; ridgetop winds S 13 mph, local gusts to 25.

Wednesday, 07/17: Sunny. Maximum Temperature 83-88°. Minimum RH 16-20%. 20 ft. slope/valley winds 6-11 mph, local gusts to 25; ridgetop winds S 10 mph, local gusts to 25.

Nighttime: expect moderate to poor humidity recovery with light winds.

### FIRE BEHAVIOR

#### Daytime

Worst case potential fire behavior will be a rate of spread upslope to 8-10 chains/hour with flame lengths up to 5-6 feet in the timber fuel type. Flame heights may exceed 100 feet if torching occurs. Probability of ignition during the morning will run around 40% but increase to 60-70% in the afternoon. Due to low relative humidity spotting can be a problem with spotting distance to 1/10 mile.

In the continuous grass fuels within the Fred's Fire area a potential rate of spread to 20 chains/hour with flame lengths to 3-4 feet could occur during the windiest time of the day.

#### Nighttime

Worst case potential fire behavior will be a rate of spread to 2-4 chains/hour with flame lengths up to 4 feet in the timber fuel type. Probability of ignition during the night will decrease to 30-40 %.

In the grass fuels expect a potential rate of spread to 5 chains/hour with flame lengths to 1 foot.

### AIR OPERATIONS:

N/A

### SAFETY

The Energy Release Component continues to be above normal for this time of year. Fuels are extremely dry and probability of ignition remains very high. This is only the middle of July with several months of fire season remaining so anticipate the potential for extreme fire behavior to increase.



**Spot Forecast for KYBURZ Fire**  
National Weather Service Sacramento  
300 PM PDT Fri Jul 12 2013

IF CONDITIONS BECOME UNREPRESENTATIVE,  
CONTACT THE NATIONAL WEATHER SERVICE.

SPOT FORECAST FOR KYBURZ...NORCAL TEAM 2  
NATIONAL WEATHER SERVICE SACRAMENTO CA  
300 PM PDT FRI JUL 12 2013

FORECAST IS BASED ON REQUEST TIME OF 1433 PDT ON JULY 12.  
IF CONDITIONS BECOME UNREPRESENTATIVE...CONTACT THE NATIONAL WEATHER  
SERVICE.

.DISCUSSION...

DRY AND WARM WEATHER OVER THE BURNSITE FOR THE UPCOMING WEEK...AS  
WEEK TROUGH CONTINUES ALONG COAST. WINDS WILL BE GENERALLY  
LIGHT...ALTHOUGH LOCAL GUSTS TO 25 MPH WILL BE POSSIBLE DURING THE  
LATE AFTERNOON HOURS. OVERNIGHT RECOVERIES WILL BE MODERATE TO POOR.

.SATURDAY...

SKY/WEATHER.....SUNNY.

MAX TEMPERATURE.....80-85.

MIN HUMIDITY.....14-18 PERCENT.

WIND (20 FT).....

SLOPE/VALLEY.....LIGHT WINDS BECOMING SOUTHWEST 6 TO 11 MPH IN  
THE AFTERNOON...LOCAL GUSTS TO 25 MPH.

RIDGETOP.....SOUTH 10 MPH...LOCAL GUSTS TO 25 MPH.

CWR.....0 PERCENT.

LAL.....1.

.SUNDAY...

SKY/WEATHER.....SUNNY.

MAX TEMPERATURE.....82-87.

MIN HUMIDITY.....16-20 PERCENT.

WIND (20 FT).....

SLOPE/VALLEY.....LIGHT WINDS BECOMING SOUTHWEST 6 TO 11 MPH IN  
THE AFTERNOON...LOCAL GUSTS TO 25 MPH.

RIDGETOP.....SOUTH 10 MPH...LOCAL GUSTS TO 25 MPH.

CWR.....0 PERCENT.

LAL.....1.

.MONDAY...

SKY/WEATHER.....SUNNY.

MAX TEMPERATURE.....80-85.

MIN HUMIDITY.....18-22 PERCENT.

WIND (20 FT).....

SLOPE/VALLEY.....LIGHT WINDS BECOMING SOUTHWEST 8 TO 13 MPH IN  
THE AFTERNOON...LOCAL GUSTS TO 25 MPH.

RIDGETOP.....SOUTH 13 MPH...LOCAL GUSTS TO 25 MPH.

CWR.....0 PERCENT.

LAL.....1.

.TUESDAY...

SKY/WEATHER.....SUNNY.  
MAX TEMPERATURE.....82-87.  
MIN HUMIDITY.....11-16 PERCENT.  
WIND (20 FT).....  
SLOPE/VALLEY.....LIGHT WINDS BECOMING SOUTHWEST 9 TO 14 MPH IN  
THE AFTERNOON...LOCAL GUSTS TO 25 MPH.  
RIDGETOP.....SOUTH 13 MPH...LOCAL GUSTS TO 25 MPH.  
CWR.....0 PERCENT.  
LAL.....1.

.WEDNESDAY...

SKY/WEATHER.....SUNNY.  
MAX TEMPERATURE.....83-88.  
MIN HUMIDITY.....16-20 PERCENT.  
WIND (20 FT).....  
SLOPE/VALLEY.....LIGHT WINDS BECOMING SOUTHWEST 6 TO 11 MPH IN  
THE AFTERNOON...LOCAL GUSTS TO 25 MPH.  
RIDGETOP.....SOUTH 10 MPH...LOCAL GUSTS TO 25 MPH.  
CWR.....0 PERCENT.  
LAL.....1.


FORECASTER...

REQUESTED BY...KEN LARSON  
REASON FOR REQUEST...WILDFIRE

IF A NEW SPOT IS NEEDED GO TO THE SACRAMENTO NWS OFFICE WEBSITE:

<http://spot.nws.noaa.gov/cgi-bin/spot/spotmon?site=sto>

OR CALL: 916-979-3047

DIVISION ASSIGNMENT LIST		1. Branch		2. Division/Group <b>A / M</b>			
3. Incident Name <b>Kyburz</b>		4. Operational Period <b>DAY OPERATIONS</b> Date: <b>7/13 to 7/17/2013</b> Time: <b>0800-1800</b>					
5. Operations Personnel							
Operations Chief	Brian Ebert		Division/Group Supervisor	Todd Mack / Rob Scott (t)			
Branch Director			Air Attack Supervisor				
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Last Shift	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time	
HC2 OC6 (C-9)	Antonio Jimenez	7/22	20	N	DP20 / 0900	1800	
ST SHF 3676C (E-15)	Jessie Brunk	7/22	27	N	DP20 / 0900	1800	
EXC G&O (E-104) w/LOWB	TBD	7/24	1	N	DP20 / 0900	1800	
WT3 ENF WT-6 (E-7)	Anthony Sigona	7/22	3	N	DP20 / 0900	1800	
TFLD (O-158)	Scott Kizziar	7/22	1	N	DP20 / 0900	1800	
7. Control Operations							
<ul style="list-style-type: none"> <li>Mop up to the degree necessary to ensure the likelihood of escape is very low. The optimum mop up distance is 200 feet.</li> <li>Initiate the repair plan</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>Backhaul trash to base camp</li> <li>Backhaul hose to Camino</li> </ul>							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 164.1250 TX 164.8250	ENF SRVC Net	<b>2</b> <b>Tone 1 &amp; 4</b>	Tactical Division/Group	RX 166.5500 TX 166.5500	R5 Tac 4	<b>3</b>
				Medical	RX 156.0750 TX 156.0750	CalCord	<b>7</b> <b>Tone 6</b>
Prepared by (Resource Unit Leader) J. Owen 		Approved by (Planning Section Chief)			Date	Time	
					7/12/2013	17:37	

<b>DIVISION ASSIGNMENT LIST</b>		1. Branch		2. Division/Group <h2 style="text-align:center;">T / Z</h2>			
3. Incident Name <h3 style="text-align:center;">Kyburz</h3>		4. Operational Period Date: <b>7/13 to 7/17/2013</b>		<b>DAY OPERATIONS</b> Time: <b>0800-1800</b>			
5. Operations Personnel							
Operations Chief		Brian Ebert		Division/Group Supervisor		Joe Griffin / Mark Johnson (†)	
Branch Director				Air Attack Supervisor			
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Last Shift	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time	
HC2IA Iron Mountain (C-23)	Rob Allen	7/21	23	N	DP20 / 0900	1800	
WT2 ENF WT-5 (E-113)	Tyler Bosworth	7/25	1	N	DP20 / 0900	1800	
FALC (O-130)	G. Harrison / R. Deniz	7/22	2	N	DP-20 / 0900	1800	
7. Control Operations							
<ul style="list-style-type: none"> <li>• Mop up to the degree necessary to ensure the likelihood of escape is very low. The optimum mop up distance is 200 feet.</li> <li>• Initiate the repair plan</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>• Backhaul trash to base camp</li> <li>• Backhaul hose to Camino</li> </ul>							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	RX 164.1250 TX 164.8250	ENF Service Net	<b>2</b> <b>Tone 1 &amp; 4</b>	Tactical Division/Group	RX 167.1125 TX 167.1125	R5 TAC 5	<b>4</b>
				Medical	RX 156.0750 TX 156.0750	CalCord	<b>7</b> <b>Tone 6</b>
Prepared by (Resource Unit Leader) J. Owen		Approved by (Planning Section Chief)			Date	Time	
					7/12/2013	17:36	

INCIDENT RADIO COMMUNICATIONS PLAN		1. Incident Name KYBURZ		2. Date/ Time Prepared 7/12/2013 6:00		3. Operational Period Date/Time 7/13-17/2013 0800 to 1800	
4. Basic Radio Channel Utilization							
Channel	Function	Frequency		Tone	Mode	Assignment	Remarks
1	ENF Frst Net	171.5250		1.0	N		Tone 1 (110.9) Tone 4 (136.5)
		169.9500					
2	ENF Srvc Net	164.1250		1.0	N	CMD	Tone 1 (110.9) Tone 4 (136.5)
		164.8250					
3	R5 TAC 4	166.5500			N	DIV A/M	
		166.5500					
4	R5 TAC 5	167.1125			N	DIV T/Z	
		167.1125					
5	R5 TAC 6	168.2375			N		
		168.2375					
6	R5 A/G 3	167.5000			N		
		167.5000					
7	CALCORD	156.0750		6.0	N	Medical	Tone 6 (156.7)
		156.0750					
8	TAC 1	168.0500			N	I/A	
		168.0500					
9	TAC 2	168.2000			N	I/A	
		168.2000					
10	TAC 3	168.6000			N	I/A	
		168.6000					
11					N		
12					N		
13					N		
14					N		
15					N		
16	AirGuard	168.6250		1.0	N	EMERGENCY	Tone 1 (110.9)
		168.6250					

5. Prepared by (Communications Unit)

Don Stoner COML

<b>MEDICAL PLAN</b>	1. INCIDENT NAME: Kyburz	2. DATE PREPARED: 07/12/2013	3. TIME PREPARED: 1900	4. OPERATIONAL PERIOD 7/13 to 7/17/2013						
<b>5. INCIDENT MEDICAL AID STATIONS</b>										
MEDICAL AID STATIONS		LOCATION		PARAMEDICS						
				Yes No						
Medical Unit		El Dorado County Fairgrounds (ICP) (916) 215-2732		X						
Ambulance M289		Staged at Drop Point 20 or as assigned by Safety		X						
<b>6. TRANSPORTATION</b>										
<b>A. Ambulance Services</b>										
NAME		LOCATION	PHONE	PARAMEDICS						
				Yes No						
El Dorado County Fire/EMS STA 21		4040 Carson Rd, Camino	911 / Camino	X						
El Dorado County Fire/EMS STA 17		6426 Pony Express Trail, Pollock Pines	911 / Camino	X						
El Dorado County Fire/EMS STA 25		3034 Sacramento St. Placerville	911 / Camino	X						
<b>B. AIR AMBULANCE</b>										
NAME		LOCATION	PHONE	PARAMEDICS						
				Yes No						
Cal Star		Auburn / South Lake Tahoe	911 / 800 252 5050	X						
CHP (Hoist) – Daytime only		Auburn, CA	911	X						
Reach		Sacramento	911 / 800 338 4045	X						
<b>7. HOSPITALS</b>										
NAME	ADDRESS	TRAVEL TIME		PHONE	TRAUMA		HELIPAD		BURN CENTER	
		AIR	GRND		Yes	No	YES	NO	YES	NO
Marshall Medical Center Level 3 Trauma Cent.	1100 Marshall Way, Placerville 38 43'31 x 120 47'30	6 min	34 min	530-626-1931	X		T3			X
Sutter Roseville Hospital Level 2 Trauma Cent.	1 Medical Plaza Dr, Roseville 38 21'01.3 x 121 47'30	25 Min	1h 25m	916 781-1200		X	T3			X
UC Davis Center Level 1 Trauma/Burn Cent.	2315 Stockton, Sacramento 38 33.30 x 121 27'40	22 min	1h 10m	916-734-3636	X		T2		X	
<b>8. MEDICAL EMERGENCY PROCEDURES</b>										
<b>LINE EMERGENCY:</b>  Crew Supervisor to contact DIVS with patient complaint/condition and location. 1) DIVS contacts: • Dispatch on Forest Service Net (Tx) 164.8250 (Rx) 164.1250 for dispatch 911 to the scene. 2) On scene IC decide mode of transportation required. 3) Dispatch contacts: • 911 • Safety • Forest Supervisor (as directed) 4) IC will manage medical emergency with Forest Dispatch  If a Medical/Medivac is needed be sure to provide the lat. and long. of the nearest helispot.			<b>CAMP EMERGENCY:</b> • <u>N/A</u>  <b>TRIAGE CONSIDERATIONS (S.T.A.R.T)</b>  Respirations: Over 30/ Under 12 = <b>Immediate</b>  Capillary Refill Over 2 seconds = <b>Immediate</b>  Mental Status Disoriented = <b>Immediate</b>  Immediate = Air Evacuation if possible			<b>PT. ASSESSMENT:</b>  • Mental status • B.P. • Pulse • Skin signs • Respirations • Crew name and location.  <b>WARNING SIGNS OF HEAT ILLNESS INCLUDES THE FOLLOWING:</b>  • An extremely high body temperature (above 103°F). • Red, hot and dry skin (no sweating). • Rapid, irregular strong pulse • Throbbing headache • Dizziness, nausea and confusion • Unconsciousness  <b>HOW TO TREAT HEAT EMERGENCIES IN THE FIELD:</b>  • Move the patient to the shade or provide shade for them • Externally cool the patient. • Fan them after getting them wet.  Drink water constantly through the day. Consider an electrolyte sports drink/powder - 2/1 ratio.				
9. PREPARED BY (MEDICAL UNIT LEADER) Scott McKenney MEDL					10. REVIEWED BY (SAFETY OFFICER) Kevin Kumpe, USFS					

**Lookouts**  
**Communications**  
**Escape Routes**  
**Safety Zones**

## Kyburz Incident

**Operation Period: Extended 7/13 to 7/17/2013 Day Shift**

### **SAFETY MESSAGE**

#### **“TAKE YOUR TIME TO DO IT SAFELY”**

- Use time wisely to focus on safety issues, there is NOTHING that is more important.
- Do not let a sense of urgency, or the hazardous mindsets of “impulsiveness” or “mission fixation” compromise your safety.
- Any time spent planning for safety will pay dividends in the end.

#### **MAJOR HAZARDS AND RISKS**

STEEP TERRAIN FATIGUE ASH PITS	ROLLING MATERIAL DEHYDRATION DRIVING	COMPLACENCY SNAGS STUMP HOLES
--------------------------------------	--	-------------------------------------

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

#### Cumulative Fatigue

Maintaining peak performance requires that you take good care of your body.

Get the appropriate amount of rest. Manage your off time to get as much sleep as possible.

Proper Nutrition and hydration is critical to managing fatigue.

#### Complacency

Don't let boredom lead to complacency.

Remain focused on the task at hand and alert at all times for changing conditions.

It is easy to fall into a routine and lose sight of all that is around us.

**Dave Marion, Safety Officer**

# INCIDENT RISK ANALYSIS

## Kyburz

### (ICS 215A) Day Shift

DIV	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS / WARNINGS / REMEDIES	
ALL	<b>HAZARD TREES/SNAGS</b>	<ul style="list-style-type: none"> <li>• Follow Hazard Tree Safety Guidelines (IRPG p. 20).</li> <li>• Limit number of personnel around snags and their exposure time; fallers must be qualified for trees being fallen.</li> <li>• Be especially alert around snags during wind events or changing wind direction.</li> <li>• Maintain Situational Awareness.</li> </ul>	
ALL	<b>DRIVING HAZARDS</b>	<ul style="list-style-type: none"> <li>• Narrow dusty roads exist.</li> <li>• Establish one way traffic or coordinate traffic flow if necessary.</li> <li>• Drive defensively! Expect the unexpected around every curve.</li> <li>• Drive with headlights on; use chock blocks, keep windshields clean; look before backing; and use backers whenever available.</li> <li>• Don't drive when fatigued. Adhere to agency driving regulations and guidelines.</li> <li>• Maintain Situational Awareness.</li> <li>• Be aware of heavy weekend traffic on Ice House Road.</li> </ul>	
DIV Z	<b>HIGHWAY HAZARDS</b>	<ul style="list-style-type: none"> <li>• Be aware of traffic, park well off of roadway.</li> <li>• Wear Hi-Vis vests as necessary.</li> <li>• Set cone pattern to warn drivers.</li> </ul>	
ALL	<b>HYDRATION</b>	<ul style="list-style-type: none"> <li>• Drinking water before, during and after shifts, up to 1.5 gal. per shift.</li> <li>• Be alert for signs of heat illness in yourself and others.</li> <li>• Drink 2 to 1 water to sports drinks.</li> </ul>	
ALL	<b>FATIGUE</b>	<ul style="list-style-type: none"> <li>• Be alert for signs of fatigue and take breaks as necessary.</li> <li>• Maintain 2:1 work/rest ratio.</li> <li>• Monitor incoming resources for level of fatigue.</li> </ul>	
ALL	<b>ENVIRONMENTAL HAZARDS</b>	<ul style="list-style-type: none"> <li>• Be alert for snakes, watch footing and hand placement around rocks.</li> <li>• Watch for bee's and check yourself for ticks.</li> </ul>	
DIV Z	<b>UNDERSLUNG LINE</b>	<ul style="list-style-type: none"> <li>• Cup trench line.</li> <li>• Post lookouts and patrols along underslung line.</li> </ul>	
ALL	<b>MOP UP</b>	<ul style="list-style-type: none"> <li>• Conduct thorough briefing for all personnel (inside rear cover IRPG).</li> <li>• Use all required PPE, including eye protection.</li> <li>• Maintain proper spacing and overhead clearance.</li> <li>• Be alert for stump holes and root cavities.</li> <li>• Minimize exposure to smoke, and rotate personnel into clean air when practical.</li> <li>• Evaluate unburned islands/Increase situational awareness.</li> </ul>	
DIV A, M	<b>HEAVY EQUIPMENT</b>	<ul style="list-style-type: none"> <li>• Utilize appropriate PPE and equipment safety mechanisms.</li> <li>• Maintain safe working distances.</li> <li>• Utilize observer or spotter.</li> <li>• Ensure the use of effective communication (radio, hand signals).</li> <li>• Identify hazards.</li> <li>• Avoid moving parts.</li> </ul>	
ALL	<b>MINE SHAFTS</b>	<ul style="list-style-type: none"> <li>• Watch for shaft openings and vent holes.</li> <li>• Keep heavy equipment clear of area.</li> </ul>	
INCIDENT NAME: <b>Kyburz</b>  ICS 215a		DATE PREPARED: <p style="text-align: center;"><b>July 12, 2013</b></p> TIME PREPARED: <b>1430 HOURS</b>	OPERATIONAL PERIOD <b>Extended Day Shift</b> <b>7/13-17/2013</b>  Prepared by S. Davis



## Kyburz Incident Fire Suppression Repair Plan

### Primary Objectives

1. To reduce sedimentation delivery to stream channels and the potential loss in soil productivity, minimize the effect of surface and gully erosion that could result from fire suppression activities. Repair activities would occur on newly constructed dozer and hand firelines, on re-opened non-system roads, and impacted system trails.
2. Mitigate threat of unstable fire-damaged trees along travel routes and within the fire perimeter where suppression or repair forces may be working.
3. Repair fire suppression damaged infrastructure within utilized campgrounds, and administrative sites.
4. Where it may have occurred and where identified by incident Resource Advisors, mitigate damage to cultural resources per Agency direction.
5. Minimize the spread of noxious weed infestations.

### Implementation Plan

The following actions will be implemented to minimize short-term impacts from fire suppression activities:

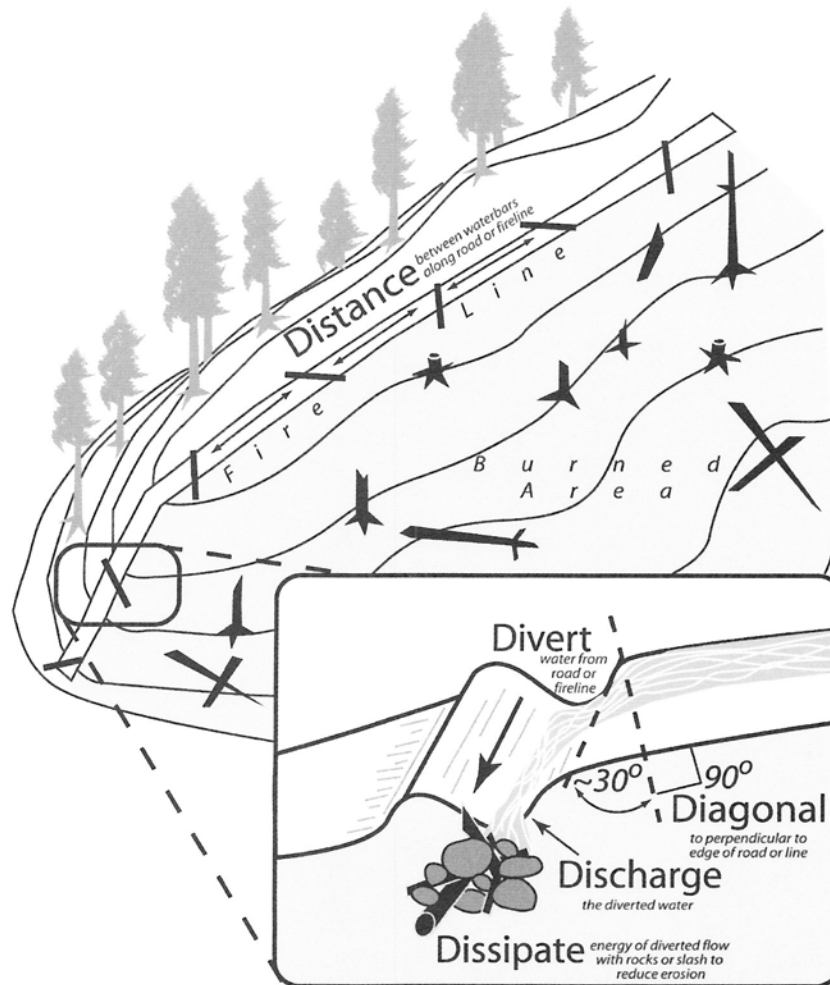
#### Waterbar Construction Guidelines – Dozerlines

- Dozers must have a hydraulically controlled angle blade in order to construct effective water bars.
- If feasible, construct waterbars prior to equipment leaving the fireline.
- Have dozers build waterbars as they back up the fireline.
- Wherever possible, angle waterbars to divert water to the unburned side of the fireline.
- Cut waterbars a minimum of 12 inches into soil or 18 inches deep if in powdered soil.
- Build waterbars diagonal to fireline.
- Drain waterbars onto rock or remaining woody vegetation wherever possible or practical.
- On steeper slopes, use natural or downed vegetation for erosion control where waterbarring is not safe or practical.
- Ensure outlet of waterbar is open.
- On contour or low gradient dozer lines where waterbars may have minimal effect, pull back outslope berms and outslope the trail.

Determine waterbar spacing from the following guideline. (Site-specific conditions, such as the availability of soil and vegetative debris, may warrant adjustments to the spacing recommendations listed.)

Recommended Maximum Spacing for Waterbars:

<u>Fireline Grade</u> (%)	<u>Soil Erosion Potential Rating for the Area</u>			
	Low	Moderate	High	Extreme
1-5	300	250	200	150
6-10	200	175	150	125
11-15	175	150	125	100
16-20	125	100	90	60
21-30	100	80	60	40
31-40	75	60	45	30
40-60 (50-60% excavator)	50	40	25	15



## **Waterbar Construction Guidelines – Handlines**

- Construct openings in berms on downhill side of handline.
- Work with the existing topography to drain effectively.

## **Drainage Cleanout**

- Dozer lines

Where dozer lines cross drainages, soil and woody material added to the channel by the dozer needs to be removed from the channel to at least above the high water line and preferably above the slope break into the stream.

Shallow dozer drainage crossings can be cleaned with a dozer.

Deep and/or steep sided drainages need to be cleaned with an excavator and should be inspected by a hydrologist.

- Handlines

Remove soil and woody material in handline drainage crossings to at least the high water line. Dirt and woody material should be placed so that it will not wash or roll back into the channel.

## **Culverts**

Clean out material in culvert intakes that was deposited during suppression activities.

## **Water Drafting Sites**

At drafting sites, remove all temporary dam structures.

Repair fill-slopes and overflow channels that resulted from drafting activities.

## **Fire Suppression Trash**

Remove all flagging, fire signs and trash from dozer lines, hand lines, road corridors, drop points, staging areas, and other areas that were impacted during suppression activity.

### **Noxious Weed Prevention**

Vehicles, equipment and PPE utilized within the proximity of the fire area will be cleaned to the extent possible to prevent the spread of noxious weeds.

### **General Provisions**

- Upon agreement by the Agency Administrator and the Incident Commander, some fire suppression repair work may be accomplished at a later date by the incoming Type 3 organization or by the home unit.
- Progress of completed repair work will be documented by the IMT and reported to the incident Resource Advisors. Progress of repair activities will be included in team planning meetings and briefings.

# Kyburz Fire CA-ENF-16230

## Transportation Map July 11, 2013

-  Fire Perimeter
-  Drop Point
-  Helibase
-  Incident Command Post
-  Repeater
-  Water Source
-  Non-National Forest
-  Eldorado National Forest

