

Incident Risk Assessment Worksheet					1. Incident Name/Number Creek Fire / CA-SNF-001391	2. Location Oakhurst, California				
Identification of Hazards and Risk Assessment					3. Name and Title of Analyst Robert Kovach SOF2, Seth Carbonari OSC2, Greg Juvan ICT2	4. Date October 13-17, 2020				
5. Pre-Control					6. Control or Abatement Action (Engineering, Administrative, PPE, Avoidance, Education, etc)	7. Post-Control				
8. Location	9. Hazard	10. Hazard Probability	11. Severity Code	12. RAC	Actions (double-click in cell then click alt + enter to add a line)	13. Hazard Probability	14. Severity Code	15. RAC	16. Acceptable (Yes/No)	
Fireline	Air Operations	Likely B	Catastrophic I	Critical	<ul style="list-style-type: none"> ~ Ensure Cooperator Aircraft / UAS are coordinated with Incident Operations. ~ Ensure positive communication with all air resources. ~ Don't plan on air resources for medical transport or resupply. ~ Follow "Aviation Watch-Out Situations" IRPG Pg 46. ~ Refer to "Directing Bucket or Retardant Drops" IRPG Pg 58 . ~ Refer to "Aerial Retardant Safety" IRPG Pg57. ~ Refer to "Aircraft Mishap Response Procedure" IRPG Pg 62. 	Occasional C	Catastrophic I	Serious	Yes	
Incident	Driving & Traffic	Frequently A	Catastrophic I	Critical	<ul style="list-style-type: none"> ~ Practice "Defensive Driving" techniques traveling on all roads and city streets. Travel on the "41 Road" and "81 Road" should be slow and cautious. ~ Use spotters & Honk horn to alert personnel when backing. ~ Follow Driving LCES (Lights, Chock blocks, Emergency brake, Seat belts). ~ Always use headlights. ~ Yield to pedestrians and bicycles. ~ Observe posted speed limits. ~ Use the 3 second rule for following distance when driving. ~ Use chock blocks, turn wheels into hill. ~ Avoid distractions (eating, cell phones, radio). ~ Ensure that windshields are kept clean of dust and bugs. ~ Refer to "Smoke and Transportation Safety" IRPG Pg 31 ~ Refer to "Roadside Response Safety" IRPG Pg 26 	Likely B	Critical II	Serious	Yes	

Incident	Hazard Trees	Frequently A	Catastrophic I	Critical	<ul style="list-style-type: none"> ~ Follow "Hazard Tree Safety" guidelines, IRPG page 22. ~ Post lookouts, or use a spotter in mop-up areas with personnel. ~ Don't park vehicles or take breaks in high concentrations of hazard trees. ~ Establish trigger points for disengagement during high wind events. ~ Remember that the hazard zone extends a minimum of 2 1/2 tree heights. 	Likely B	Critical II	Serious	Yes
Incident	Fatigue & Over Exertion	Likely B	Catastrophic I	Critical	<ul style="list-style-type: none"> ~ Drink 1 quart of water each hour during and after work. ~ Rotate crews out of smoky areas. Consider hotels for quality rest out of smoke. ~ Set a reasonable work pace and allow adequate rest breaks while on the project. ~ Stagger work crews start time to limit fatigue. ~ Use buddy system to monitor personnel of heat related and fatigue issues. ~ Follow work / rest guidelines. 	Likely B	Critical II	Serious	Yes
Fireline	Chipping Operations	Likely B	Catastrophic I	Critical	<ul style="list-style-type: none"> ~ Wear gloves when handling the blades. All blades have to be set in the proper place and make sure they are tightened to manufacturer recommended specifications ~ Be Aware of "Roadside" hazards. Post a lookout when traffic and other hazards are present. ~ Complete full equipment pre-use inspections as prescribed by the manufacturer. Repair any deficiencies prior to use. ~ Ensure all safety systems are working properly. Only one person at a time shall feed the chipper. Do not reach into the chipper while it is running. Always use a pusher stick to clear the hopper. Do not wear loose clothing. ~ Ensure operator is trained and qualified to pull trailer. Confirm correct hitch size, safety chains are operational and electrical connections are not damaged. Ensure vehicle pulling trailer is appropriate for chipper to be pulled. ~ Point/aim discharge shoot away from persons or objects before engaging blade clutch. Avoid point shoot at objects that may deflect chips. Do not adjust discharge shoot while blades are running. ~ Always wear hearing and eye protection while being around the chipper. Wear all required PPE to include eye protection, hearing protection, leather gloves, long sleeves, pants and leather boots. Stay away from the discharge chute. 	Likely B	Critical II	Serious	Yes
Fireline	Heavy Equipment Operations	Likely B	Catastrophic I	Critical	<ul style="list-style-type: none"> ~ Refer to "Working with Heavy Equipment" IRPG Pg 86 ~ Ensure communications are established with operators. ~ Use hand signals if other communications are unavailable. ~ Maintain a 50'-100' exclusion area around equipment and increase it to 1 1/2 times tree height when in timber. ~ Use a spotter when backing. ~ Avoid working below heavy equipment. 	Likely B	Critical II	Serious	Yes

Incident	Personal Hygiene / COVID 19	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Adhere to local, agency and IMT policy and direction to prevent spread of virus. Educate incident personnel in policy and practices. ~ Obtain proper care for those effected and ensure proper reporting procedures of illness are followed. ~ Ensure self assessments, social distancing, face coverings and personal hygiene. ~ Encourage anyone with potential symptoms notifies supervisor immediately. ~ Don't share personal items such as water bottles communication devices and utensils. ~ Wash hands before meals, and after use of rest room facilities. Follow with hand sanitizer. 	Likely B	Significant III	Moderate	Yes
Incident	Heat Related Illness (HRI)& Dehydration	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Refer to Heat Related Illness information, IRPG Pg 109 ~ Drink Fluids throughout operational period (6-8 qts/shift). ~ Maintain water/electrolyte ratio of 3 to 1. ~ Carry extra water on line and cache water at drop points. ~ Take Frequent breaks, minimum of 10 minutes every hour. ~ Allow out of area resources time to acclimatize before expecting peak performance. ~ Recognize symptoms of HEAT RELATED ILLNESS which include. <ul style="list-style-type: none"> o Lack of energy o Headaches, dizziness o Lack of rest o No hunger, poor eating habits o Hot skin, and lack of sweating 	Likely B	Significant III	Moderate	Yes
Incident	Firefighter & Public Smoke Exposure	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Refer to "Smoke Hazards and Mitigation" IRPG Pg 30 ~ Use warning lights and provide traffic control on roadways during smoky and night operations. ~ Rotate crews out of smoky areas during firing and mop-up operations. Consider hotels to ensure quality sleep out of smoke. ~ Contact Communications when firing operations are initiated. 	Likely B	Significant III	Moderate	Yes
Incident	Bees, Ticks, Mosquitoes	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Canvas crew members for those with known allergic reactions to stings. ~ Ensure crew members have medication pens if needed. ~ Perform daily self inspection. ~ Use repellent as necessary. ~ Advanced Life Support, multi-dose epi and airway protection. ~ Keep affected area clean and bandaged. ~ Be extra careful when eating and/or drinking to avoid stings to mouth and throat. 	Likely B	Significant III	Moderate	Yes

Fireline	Fireline Hazards	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Refer to "Fireline Location" considerations, IRPG Pg 84 ~ Do not work directly above or below personnel during firing and mop-up operations. ~ Watch for falling and rolling debris on steep slopes. ~ Alert crew personnel of rolling debris by yelling to affected individuals. ~ Position debris that could roll vertically on slope. ~ Avoid stepping over debris that could roll by walking around object. ~ Avoid radiant heat by wearing appropriate PPE correctly. ~ Use correct tool for task assigned. ~ Flag and isolate all HAZMAT and alert all personnel working in Division. ~ Ensure LCES is in place at all times. 	Likely B	Significant III	Moderate	Yes
Fireline	Steep Terrain & Rolling Debris	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Maintain 8'-10' spacing when working & walking. ~ Don't work above any personnel. ~ Be on the lookout for rolling rocks, debris, or burning material. ~ Evaluate necessity to send personnel in areas with limited access. ~ Post lookouts IRPG Pg 7 	Occasional C	Significant III	Minor	Yes
Fireline	ATV/UTV use	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Ensure equipment is inspected and safe to use. ~ Restrict UTV's to max width of 50" on ATV trails due to width and severe out sloped conditions. ~ Ensure operator is trained and certified to operate. ~ Ensure operator has proper PPE according to the Redbook and/or RMA. ~ Question if it is mission critical. 	Occasional C	Significant III	Minor	Yes
Fireline	Structure Protection & HAZMAT	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Review "Wildland Urban Interface Firefighting" considerations, IRPG Pg 12-16 ~ Use "Structure Assessment" checklist, IRPG Pg 13 ~ Refer to "Structure Hazard Marking System" IRPG Pg 41 ~ Follow "HAZMAT Incident Operations" IRPG Pg 36 	Occasional C	Significant III	Minor	Yes
Fireline	Mop-up & Rehab	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Do not work above or below personnel during rehab/mop-up operations. ~ Alert crew personnel of rolling debris by yelling to affected individuals. ~ Position debris that could roll vertically on slope. ~ Wear eye protection. 	Occasional C	Significant III	Minor	Yes

Camp	Incident Camp	Likely B	Critical II	Serious	<ul style="list-style-type: none"> ~ Be aware of camp medical and evacuation plans ~ Wear closed toe footwear with acceptable support. Be aware of potential for uneven footing and loose rocks. Wear PPE as required for assigned tasks. ~ Loading and carrying: lift with legs, not back. Ask for assistance or use cart / dolly if needed. ~ Drive slowly. Max 5 MPH. Signal, watch for pedestrian traffic. ~ When Backing: Use a Spotter. ~ Use chock blocks, especially if parked on uneven ground. ~ Guy ropes and stakes: flag / mark with fluorescent lighting. ~ Be Aware of "Widow Makers" in camp and sleeping area. Do not camp under hazards ~ Personal Hygiene: Wear Masks, Distance, Wash hands after toilet use and prior to eating ~ Be Aware there may be Snakes, Insects and Poison Oak in camp. ~ Alcohol and / or Illegal drugs are prohibited in camp. 	Occasional C	Significant III	Minor	Yes
Fireline	Poisonous Plants	Likely B	Significant III	Moderate	<ul style="list-style-type: none"> ~ Identify and Avoid hazard areas. ~ Launder clothing. ~ Shower frequently. 	Likely B	Minor IV	Minor	Yes