

Risk Assessment Worksheet			1. Incident Name: Antelope Fire			2. Incident Number: CA-KNF-006454				
3. Operational Period: Day Shift 0600-2200 Night Shift 2200-0600			4. Prepared by: (Safety Officer Signature & Date) <b>Walt Hansen, Safety, (walt.hansen@cafire.com) August 19th, 2021</b>			5. Reviewed by: (Operations Section Chief Signature & Date) <b>/s/ Eddy Baer OPS 2</b>				
Signature: _____			Title: _____			Date: <b>20-Aug-21</b>				
Identify Hazards		Assess Hazards		Risk Control Options		Residual Risk		Decision	Implement	
7. Task	8. Hazard	9. Hazard Probability	10. Severity	11. RAC	12. Identify hazard mitigations & measures (prior to & after to add 3rd)	11. Hazard Probability	14. Severity	15. RAC	16. Task Recovery?	17. Hazard Control Assigned To
All Incident Operational Tasks	Powerlines - Electrocution	Possible	Catastrophic	Extremely High	Review IRPG page 24 for mitigations. Ground operations occurring in close proximity to overhead powerlines pose a high risk of electrocution when heavy smoke impacts lines, wood poles burn thru and lines are low or in the ground. Always treat lines down as energized. Homeowners running generators can backfeed the electrical grid, so even if utility personnel confirm the power is off, it may not be.	Unlikely	Catastrophic	High	YES	Division Supervisors
All Incident Operational Tasks	Medical Delay in patient admission to appropriate MCF (medical care facility)	Likely	Critical	Extremely High	Provide on-site medical transportation capability (ground ambulance), coordinate medevac using fire helicopters, private medical helicopter services, local government (CHP, US Army National Guard). Ensure extraction capability (short haul and hoist) are identified and ordering process is confirmed. Identify helispots including airports remote (up to 50 miles) from fire.	Possible	Critical	High	YES	Medical Section Chief MEDL
Spot Fires	Entrapment - Any Cause	Possible	Catastrophic	Extremely High	Ensure 10-18 are reviewed, ensure LCEs is reviewed and in place.	Unlikely	Catastrophic	High	YES	All Operations Personnel
All Incident Operational Tasks & IA	Equipment - Control Line Construction	Possible	Critical	High	Assign HEOB to all heavy equipment, utilize Risk Assessment Tool card (RAT card), review IRPG page 86 for mitigations.	Possible	Critical	High	YES	Division Supervisor / TFD
Transportation - Ground	Motor Vehicle Accident-All Causes: visibility, other vehicles, pedestrians, bicycles, wildlife, road surface, livestock.	Possible	Critical	High	Establish Incident Base near fire to minimize transportation distances, establish camps as needed if transportation times approach 1 hour or greater. Utilize visual briefings to minimize driving required to attend in person briefings. Local roads can be narrow with little to no shoulder, present blind corners and blind hills. Local vehicles (RV) can have heavy traffic. Anticipate cattle and wildlife on the roadway. Minimize or eliminate distractions within your vehicle, adhere to driving policy, work policy, and day limitations. Maintain vehicle readiness: clean windows, use headlights day & night, seatbelt use, take frequent breaks during long drives, obey posted speed limits, use backbrake if available. If a motor vehicle accident (MVA) occurs refer to IRPG page 35 for mitigation.	Possible	Critical	High	YES	All Drivers
Indirect Line Construction - Hand tools/Saws	Chainsaw - Laceration	Possible	Critical	High	The chainsaw operator is responsible for controlling the cutting area and communicating with others in the cutting area. Provide proper trauma kits near saw operations. Maintain recommended spacing of falling teams or others working in the cutting area. Proper training and certification level for personnel cutting and assisting with saw operations. If you are not comfortable falling the tree, walk away. Notify your supervisor and mitigate the safety issues or turn down the assignment.	Possible	Critical	High	YES	Division Supervisors Sawyers and Swampers
All Incident Tasks	Medical - Heat Related Illness	Possible	Critical	High	Refer to IRPG pg 309 for mitigations. Utilize the "Heat Related Illness" info available thru the QR code on the cover of the IAP to determine length of shift and work to rest ratio per hour to avoid a HRI.	Unlikely	Critical	Moderate	YES	Division Supervisors Medical Unit
All Incident Operational Tasks	Medical - Delay in Providing Advanced Life Support	Possible	Critical	High	Provide ALS level care to each division (day & night) with dedicated line medic teams, REM's, with additional capacity using ALS ambulances. DWS & Field OPS ensure Medical RW kits in place on each staffed division each shift. DWS ID closest helicopter and an alternate helispot at the beginning of each shift, confirm your helispots are on the OPS map.	Unlikely	Critical	Moderate	YES	Medical Section Chief MEDC's
All Incident Operational Tasks	Hazard Trees/Snags	Possible	Critical	High	Utilize qualified fallers to evaluate/drop HT's, communicate HT's throughout the work shift, tag HT's as needed. Consider displacement with high winds.	Unlikely	Critical	Moderate	YES	Division Supervisors
Aviation Operations - Bucket Work, Retardant Longline, Medevac, Aerial Recon, Troop Shuttle	Powerlines	Unlikely	Catastrophic	High	Review IRPG page 25 (Aerial Tactics) & page 50 (Helicopter Landing Areas). Never assume helicopter pilots know about wires, always advise pilots of known aerial hazards.	Rare	Catastrophic	Moderate	YES	All Operations Personnel Division Supervisors ATGS
Firing Operations - Ground	Burns - Flammable/Combustible Liquids	Possible	Critical	High	Ensure any burning operations include a safety briefing on slip torch's and recent burn injuries resulting from non-compliant drop torch components.	Unlikely	Critical	Moderate	YES	Division Supervisors Firing Bosses
Line Construction-Mechanical Direct/Indirect	Hit by Flying Debris	Possible	Critical	High	Review IRPG page 86, Working with Heavy Equipment!	Unlikely	Critical	Moderate	YES	Division Supervisors HEOB
Point Protection / Structure Protection	Electrocution - Power Lines	Possible	Critical	High	Review IRPG page 12 for WVI mitigations and page for 24 for powerline mitigations.	Possible	Moderate	Moderate	YES	Division Supervisors
Point Protection / Structure Protection	Explosion - Gas Utilities	Possible	Critical	High	Review IRPG page 12 thru 16 for mitigations.	Possible	Moderate	Moderate	YES	Division Supervisors
Point Protection / Structure Protection	Hazardous Materials	Possible	Critical	High	Review IRPG page 30 for smoke mitigations. (Assumption page 24 Mat is in normal residential quantities).	Possible	Moderate	Moderate	YES	Division Supervisors
Transportation - Ground UTV	Human Factors - Experience & Training	Possible	Critical	High	Evaluate if UTV use is justified (utilize Risk Assessment Tool card (RAT card)). Utilize trained and certified drivers only, drive at reasonable and prudent speeds, follow your agency policy regarding PPE use to minimize injury potential, avoid driving or riding on public roads which increases the possibility of an accident. Reference Chapter 14 of the 2021 Red Book page 310, UTV head protection for wildland fire operations.	Unlikely	Critical	Moderate	YES	UTV operators Division Supervisors
Transportation - Ground UTV	UTV Rollover / Accident	Possible	Critical	High	Maintain overall weight within manufacturers limits, do not overload UTV. Avoid aftermarket roof racks that change the CG of vehicle. Conduct daily PM checks (FLUID). Only qualified operators to drive UTV's. Operate within your skill limits. Drive at reasonable speeds and avoid travel on side slopes.	Unlikely	Critical	Moderate	YES	UTV Operators
All Incident Operational Tasks	Smoke Inhalation	Possible	Moderate	Moderate	Legal & illegal grows pose a health hazard due to use of pesticides, herbicides, rodenticides, plastics, all of which pose an inhalation hazard when burning. Avoid smoke from burning marijuana grows, burning vehicles and or burning structures.	Possible	Moderate	Moderate	YES	Division Supervisors
All Incident Operational Tasks & IA	Entrapment - Any Cause	Unlikely	Critical	Moderate	Ensure 10-18 are reviewed, ensure LCEs is reviewed and in place.	Rare	Critical	Moderate	YES	Division Supervisor
Aviation Operations - Bucket Work, Retardant Longline, Medevac, Aerial Recon, Troop Shuttle	Aircraft Mishap - General	Rare	Catastrophic	Moderate	Refer to IRPG Aviation User Checklist page 42 (blue section) and Emergency Medical Care (pink section) sections, especially pages 50-54, 57, 62, 116-117. Review and train on the Helicopter 2.2 Brief' to improve communications between ground and pilot. Ensure area or line is cleared prior to water or retardant drops, provide immediate feedback to pilots as to effectiveness of drops.	Rare	Catastrophic	Moderate	YES	Division Supervisors
ICP or Evacuations	Hostile Individual	Rare	Critical	Moderate	Refer to Active Shooter Plan for Team 4, deescalate and / or retreat to escape situation.	Rare	Critical	Moderate	NO	All Personnel
Line Construction-Mechanical Direct/Indirect	Equipment - Crushed by Heavy Equipment/Rollover	Unlikely	Critical	Moderate	Assign HEOB to all heavy equipment, utilize Risk Assessment Tool card (RAT card), review IRPG page 86 for mitigations.	Unlikely	Critical	Moderate	YES	Heavy Equipment Boss Division Supervisors
Medevac Operations	Aviation Mishap - Any Cause	Rare	Catastrophic	Moderate	Ensure the Landing Zone Briefing is transmitted to pilots prior to landing. If hoist or short haul operations are occurring ensure extraction location hazards such as height of timber or other flight hazards are communicated to pilots. Utilize the Medical Incident Report when declaring an MVA.	Rare	Catastrophic	Moderate	YES	Division Supervisors Medical Unit IWC
Night Medevac	Human Factors - Experience & Training	Rare	Catastrophic	Moderate	Plan for night medevac operations by ensuring strobes & headlights have fresh batteries, slow stroke (use red not green) are available, confirm aerial hazards such as powerlines do not exist in area of operations (helispots, short haul, or hoist), know location of closest LZ and alternate LZ.	Rare	Catastrophic	Moderate	YES	Division Supervisors IWC
Patrol/Secure Fire Egress/Map up	Burns - Ash Pile/Slump Holes	Unlikely	Critical	Moderate	Avoid or closely evaluate the need for mop up activities in areas where molten material could be broken into and litter banks, stream beds) resulting in a fall into an ash-pit.	Rare	Critical	Moderate	YES	Division Supervisors
Saw Usage	Chainsaw - Geyser/Injury	Unlikely	Critical	Moderate	Utilize "C" Fallers as necessary. Review causes for geysering and anticipate occurrence, minimize possibility of geysering to occur, provide proper trauma kits near saw operations.	Rare	Critical	Moderate	YES	Division Supervisors Sawyers and Swampers
Scouting/Monitoring/Recon - Ground	Entrapment - Any Cause	Unlikely	Critical	Moderate	Ensure 10-18 are reviewed, ensure LCEs is reviewed and in place.	Rare	Critical	Moderate	YES	Division Supervisors
Transportation - Ground ATV	ATV Rollover / Accident	Unlikely	Critical	Moderate	Evaluate if ATV use is justified (utilize Risk Assessment Tool card (RAT card)). Utilize trained and certified riders only, ride at reasonable and prudent speeds, follow your agency policy regarding PPE use to minimize injury potential, avoid driving or riding on public roads which increases the possibility of an accident. Reference Chapter 14 of the 2021 Red Book page 310, ATV head protection for wildland fire operations.	Rare	Critical	Moderate	YES	ATV Operators Division Supervisors
All Incident Operational Tasks	Medical - Hygiene, Illness, Disease	Possible	Moderate	Moderate	Identify individuals with known allergic reactions, make open locations known, communicate and flag known bee locations. Watch for snakes in work, rest, and sleeping areas. Coordinate with ALS on your Division Supervisor.	Possible	Moderate	Moderate	YES	All Personnel Medical Unit
All Incident Tasks	Allergic Reaction - Insects/Animals	Possible	Moderate	Moderate	Identify individuals with known allergic reactions, make open locations known, communicate and flag known bee locations. Watch for snakes in work, rest, and sleeping areas. Coordinate with ALS on your Division Supervisor.	Unlikely	Moderate	Low	YES	All Personnel Medical Unit
Provide for Public Safety	Public Evacuations	Possible	Moderate	Moderate	Coordinate with Team LDFR and or LE. Maintain closure points on roads as needed. Team PIO & LDFR to provide clear information related to evacuation paths and evacuation locations and or provide active links to agencies responsible for evacuation.	Possible	Negligible	Low	YES	Division Supervisors LDFR PIO
Provide for Public Safety	MVA-Visibility/Smoke	Unlikely	Critical	Moderate	Utilize Roadway Response Plan to mitigate hazards associated with smoke on roadways if impacts are anticipated. Review IRPG page 33 for mitigations. Utilize other agencies (CALTRANS, Siskiyou County road dept) for assistance / resources. Coordinate with LE PIO messaging to include air quality concerns and public health information links to state and or county health departments about air quality resources.	Rare	Moderate	Low	YES	Team Safety Officer LDFR
Provide for Public Safety	Smoke Inhalation	Possible	Moderate	Moderate	Some railroad crossings do not have flashing lights, audible signals, or other warning devices. Always look both directions before crossing any grade level railroad crossing. Contact railroad dispatcher at 1-800-484-8715 to notify of any damage to tracks, burning ties, etc.	Rare	Moderate	Low	YES	PIO
Transportation - Ground	Grade level railroad crossings	Possible	Moderate	Moderate	Communicate hazards while hiking, watch footing while on steepen ground, minimize working above others while on slopes. Several areas on this fire have large sink holes due to volcanic landslides.	Unlikely	Moderate	Low	YES	Division Supervisors
Transportation - Ground	Slip/Trip/Falls - Steep Terrain, Unstable Surface	Possible	Moderate	Moderate	Place the right ladder for the job. Visual inspection of all ladder steps, ladder legs, and ladder cross supports. Set up ladder, check for stability and testing for performance. Maintain three points of contact. Secure the ladder. Always face the ladder.	Unlikely	Moderate	Low	YES	Single Resource Bosses
Point Protection / Structure Protection / Ladders	Above Ground Level Fall	Unlikely	Critical	Moderate	Place the right ladder for the job. Visual inspection of all ladder steps, ladder legs, and ladder cross supports. Set up ladder, check for stability and testing for performance. Maintain three points of contact. Secure the ladder. Always face the ladder.	Unlikely	Moderate	Low	YES	Single Resource Bosses