

Risk Assessment Worksheet				1. Incident Name: Antelope Fire		2. Incident Number: CA-KNF-006454				
3. Prepared By: Day Shift 0600-2300 Night Shift 2300-0600				4. Prepared by: (Safety Officer Signature & Date)		5. Reviewed by: (Operations Section Chief Signature & Date)				
Signature: _____				Title: _____		Date: 23-Aug-21				
Identify Hazards		Assess Hazards		Risk Control Options		Residual Risk		Decision		Implementation
7. Task	8. Hazard	9. Hazard Probability	10. Severity	11. RAC	12. Identify based mitigations & measures (press [alt + enter] to add a line)	13. Hazard Probability	14. Severity	15. RAC	16. Task Necessary?	17. Inward Control Assigned to:
All Incident Operational Tasks	Powerlines - Electrocutation	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 where: heavy smoke impacts lines, wood poles burn thru and lines are low or on the ground. Always treat lines as energized. Homeowners running generators can backfeed the electrical grid, so even if utility personnel confirm the power is off, it may be on.	Unlikely	Catastrophic	High	YES	Division Supervisors
All Incident Operational Tasks	Medical Delay in patient admission to appropriate MCF (medical care facility) and Delay in Providing Advanced Life Support	Likely	Critical	Extremely High	Provide on site medical transportation capability (ground ambulances), coordinate medical using fire helicopters, private medical helicopter services, local government (CHP, US Army National Guard). Ensure extraction capability (short haul and hoist) are identified and egressing process is confirmed. Identify helispots including airports remote (up to 50 miles) from fire. Provide ALS level care to each division (day & night) with dedicated fire line needs teams, REM's, with additional capacity using ALS ambulances. DVS & Field OPS ensure Medical IW plan is in place on each staffed division each shift. DVS ID closest helispot and an alternate helispot at the beginning of each shift, confirm your helispots are on the OPS map.	Possible	Critical	High	YES	MED/Section Chiefs/DV's
Spot Fires	Entrapment - Any Cause	Possible	Catastrophic	Extremely High	Figure 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 HEDQB to all heavy equipment, review IRPG page 86 for mitigations. 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 driving distances, establish camp as needed if transportation times approach 1 hour or greater. Utilize virtual 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 highways (97) can have heavy traffic. Anticipate cattle and wildlife on the roadway. Minimize or eliminate distractions within your vehicle, adhere to driving policy, work rest policy, duty day limitations. Maintain vehicle readiness: clean windows, use headlights day & night, seatbelt use. Take frequent breaks during long drives, obey posted speed limits, use backlers if available. If a motor vehicle accident (MVA) occurs refer to IRPG page 35 for mitigations.	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 running saws 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 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. DVS & Field OPS ensure Medical IW plan is in place on each staffed division each shift. DVS ID closest helispot 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 MED'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, flag HT's as needed. Provide displacement with back wires.	Unlikely	Critical	Moderate	YES	Division Supervisors
Aviation Operations - Bucket Work, Retardant Engine, Medevac, Aerial Recon, Troop Shuttle	Powerlines	Unlikely	Catastrophic	High	Review IRPG page 25 (Aerial Tactics) & page 50 (Helicopter Landings Area). Review use of helicopter pilots know about wires, always advise pilots of known aerial powerlines.	Rare	Catastrophic	Moderate	YES	All Operations Personnel Division Supervisors ATOS
Line Construction - Mechanical Direct/Indirect	Ht by Hitting debris	Possible	Critical	High	Review IRPG page 86, Working with Heavy Equipment	Unlikely	Critical	Moderate	YES	Division Supervisors HEDQB
Point Protection / Structure Protection	Electrocution - Power Lines	Possible	Critical	High	Review IRPG page 12 for MVA mitigations and page for 24 for powerline mitigations.	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
Transportation - Ground UTV	UTV Rollover / Accident	Possible	Critical	High	Maintain overall weight within manufacturer limits, do not overload UTV. Avoid alternate road/racks that change the C/G of vehicle. Conduct daily PM checks (T-CLOC). Only qualified operators to drive UTV's. Operate within rated limits. Drive at reasonable speeds and avoid travel on side roads.	Unlikely	Critical	Moderate	YES	UTV Operators I
Night Medevac	Human Factors - Experience & Training	Unlikely	Catastrophic	High	Plan for night medevac operations by ensuring strobes & headlamps have fresh batteries, glow sticks (use red not green) are available, confirm aerial hazards such as powerlines do not exist in an area of operations (helispots, short haul, or hoist), know location of closest LZ and evacuation routes.	Rare	Catastrophic	Moderate	YES	Division Supervisors IAW IC
All Incident Operational Tasks & IA	Entrapment - Any Cause	Unlikely	Critical	Moderate	Figure 10 - 18 are reviewed, ensure LCEs is reviewed and in place.	Rare	Critical	Moderate	YES	Division Supervisor
Aviation Operations - Bucket Work, Retardant Engine, Medevac, Aerial Recon, Troop Shuttle	Aircraft Mishap - General	Rare	Catastrophic	Moderate	Refer to IRPG Aviation User Checklist page 45 (Blue section) and Emergency Medical Care (pink section) sections, especially pages 50-54, 62, 116-117. Review and train on Helicopter 2 Book 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, disengage and / or attempt to de-escalate situation.	Rare	Critical	Moderate	NO	All Personnel
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 a hoist.	Rare	Catastrophic	Moderate	YES	Division Supervisors Medical Unit IAW IC
Patio/Secure Fires Edge/Mop-up	Burns - Ash Pit/Jump Holes	Unlikely	Critical	Moderate	Identify or closely evaluate the need for mop-up activities in areas where woody material could be buried under soil (river banks, stream beds) resulting in a fall into an ash pit.	Rare	Critical	Moderate	YES	Division Supervisors
Saw Usage	Chainsaw - Gyering / Injury	Unlikely	Critical	Moderate	Utilize "C" fallers as necessary. Review causes for gyering and anticipate occurrence, minimize possibility of gyering to occur, provide proper trauma kits near saw operations.	Rare	Critical	Moderate	YES	Division Supervisors Sawyers and Swampers
Transportation - Ground ATV	ATV Rollover / Accident	Unlikely	Critical	Moderate	Evaluate if ATV use is justified. 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	Refer to CDC recommendations about COVID-19, norovirus, strep throat, etc. Follow CA-KNF direction on covid mitigations. Maintain good or better personal hygiene, coordinate with county health departments as needed.	Possible	Moderate	Moderate	YES	All Personnel Medical Unit
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.	Unlikely	Moderate	Low	YES	Division Supervisors
All Incident Tasks	Allergic Reaction - Insects/Animals	Possible	Moderate	Moderate	Identify individuals with known allergic reactions, make eye pain 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 LOPR and or LE. Maintain closure points on roads as needed. Team PIO & LOPR to provide clear information related to evacuation status and evacuation locations and or provide active links to agencies responsible for evacuations.	Possible	Negligible	Low	YES	Division Supervisors LOPR 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 31 for mitigations. Utilize other agencies (CALTRANS, Solano County road dept) for monitoring / signage. Coordinate with LE.	Rare	Moderate	Low	YES	Team Safety Officer LOPR
Provide for Public Safety	Smoke Inhalation	Possible	Moderate	Moderate	PIO messaging to include air quality concerns and public health information links to state and or county health departments about the effects of smoke.	Rare	Moderate	Low	YES	PIO
Transportation - Ground	Grade level railroad crossings	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 1-800-848-8715 to notify of any damage to tracks, burning ties, etc.	Unlikely	Moderate	Low	YES	Division Supervisors
Transportation - Ground	Slip/Trip/Falls - Steep Terrain, Unstable Surface	Possible	Moderate	Moderate	Communicate hazards while hiking, watch footing while on steeper ground, minimize walking above others while on slopes. Several areas on this fire have large sink holes due to Abocan's landslides.	Unlikely	Moderate	Low	YES	Single Resource Bosses
Point Protection / Structure Protection / Ladders	Above Ground Level Fall	Unlikely	Critical	Moderate	Choose 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