

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) <i>Helen Cook EOP, Training Hobbies EOP, Larry Oswald EOP August 23, 2021</i>			5. Reviewed by: (Operations Section Chief Signature & Date) <i>/s/ Shane Sturgill</i>				
Red Text is newly added item (48 hrs.) or significant changes. Blue Text indicates a Near Miss/Close Call Incident.										
Signature: _____						Date: 24-Aug-21				
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 (press [alt + enter] to add a line)	13. Hazard Probability	14. Severity	15. RAC	16. Task Necessary?	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 on 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/land Delay in Providing Advanced Life Support	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. Provide ALS level care to each division (day & night) with dedicated line medic teams, REMTs, with additional capacity using ALS ambulances. DIVS & Field OPS ensure Medical IWI plan is in place on each staffed division each shift. DIVS 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	MEDU/Section Chief/DIVS
Aviation Operations - Bucket Work, Retardant Longline, Medevac, Aerial Recon, Troop Shuttle	Aircraft Mishap - General	Possible	Catastrophic	Extremely High	Refer to IRPG Aviation User Checklist page 45 (blue section) and Emergency Medical Care (pink section) sections, especially pages 50-54, 57, 62, 116-117. Review and train on the Helicopter LZ 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 effectiveness of drops. Ensure dust abatement protocols are considered and in place prior to landing aircraft.	Unlikely	Catastrophic	High	YES	Division Supervisors
All Incident Operational Tasks	Medical - Delay in Providing Advanced Life Support	Possible	Catastrophic	Extremely High	Provide ALS level care to each division (day & night) with dedicated line medic teams, REMTs, with additional capacity using ALS ambulances. DIVS & Field OPS ensure Medical IWI plan is in place on each staffed division each shift. DIVS 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	Medical Section Chief MDLs
Spot Fires	Entrapment - Any Cause	Unlikely	Catastrophic	High	Ensure 10- 18 are reviewed, ensure LCES is reviewed and in place.	Unlikely	Critical	Moderate	YES	All Operations Personnel
All Incident Operational Tasks & IA	Equipment - Control Line Construction	Possible	Critical	High	Assign HEQB or Leadership to heavy equipment when possible, review IRPG page 86 for mitigations. Review IRPG page 86 for mitigations.	Unlikely	Critical	Moderate	YES	Division Supervisor / TLD
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.	Unlikely	Critical	Moderate	YES	Division Supervisors Sawyers and Swampers
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 camps 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 backers if available. If a motor vehicle accident (MVA) occurs refer to IRPG page 59 for mitigations.	Unlikely	Critical	Moderate	YES	All Drivers
All Incident Operational Tasks	Hazard Trees/Snags	Possible	Critical	High	Avoidance if possible, Utilize qualified fallers to evaluate/drop HT's, communicate HT's throughout the work shift, flag HT's as needed. Consider disengagement with high winds.	Rare	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
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 HEQB
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 enter in area of operations (helispots, short haul, or hoist), know location of closest LZ and alternate LZ's	Rare	Catastrophic	Moderate	YES	Division Supervisors IWI IC
Patrol/Secure Fire Edge/Mop up	Burns - Ash Pit/Stamp Holes	Possible	Critical	High	Avoid 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
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
KP 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 an IWI.	Rare	Catastrophic	Moderate	YES	Division Supervisors Medical Unit IWI IC
Saw Usage	Chainsaw - Gysering / Injury	Unlikely	Critical	Moderate	Utilize "C" Fallers as necessary. Review causes for gysering and anticipate occurrence, minimize possibility of gysering to occur, provide proper trauma kits near saw operations.	Rare	Critical	Moderate	YES	Division Supervisors Sawyers and Swampers
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 pesticide, herbicide, rodenticide, 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
Transportation - Ground	Slips/Trips/Falls - Steep Terrain, Unstable Surface	Possible	Moderate	Moderate	Communicate hazards while hiking, watch footing while on steeper ground, minimize working above others while on slopes. Several areas on this fire have large sink holes due to volcanic landslides.	Possible	Moderate	Moderate	YES	Single Resource Bosses
Point Protection / Structure Protection	Electrocution - Power lines	Possible	Critical	High	Review IRPG page 12 for IWI mitigations and page for 24 for powerline mitigations.	Unlikely	Moderate	Low	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.	Rare	Moderate	Low	YES	UTV operators Division Supervisors
Transportation - Ground - UTV	UTV Rollover / Accident	Possible	Critical	High	Maintain overall weight within manufactures limits, do not overload UTV. Avoid aftermarket roof racks that change the C/G of vehicle. Conduct daily PM checks (T-CLOC). Only qualified operators to drive UTV's. Operate within your skill limits. Drive at reasonable speeds and avoid travel on side slopes.	Rare	Moderate	Low	YES	UTV Operators
Provide for Public Safety	MVA-Visibility-Smoke	Possible	Critical	High	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, Skyway County road dept) for monitoring / signage. Coordinate with LE.	Rare	Moderate	Low	YES	Team Safety Officer LQFR
All Incident Tasks	Allergic Reaction - Insects/Animals	Possible	Moderate	Moderate	Identify individuals with known allergic reactions, make epin 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	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 air quality resources.	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.	Rare	Moderate	Low	YES	Division Supervisors
Provide for Public Safety	Public Evacuations	Unlikely	Moderate	Low	Coordinate with Team LQFR and on LE. Maintain closure points on roads as needed. Team PIO & LQFR to provide clear information related to evacuation status and evacuation locations and or provide active links to agencies providing public evacuations.	Unlikely	Negligible	Low	YES	Division Supervisor LQFR PIO