

Risk Assessment Worksheet		Antelope Fire		CA-KNF-006454						
1. Incident Name:		2. Incident Number:		3. Incident Number:						
4. Operational Period: Day Shift 0600-2200 Night Shift 2200-0600		5. Prepared by: (Safety Officer Signature & Date) Mehdi Ouh 08/21/2021, Young Williams 08/21/2021, Larry O'Connell 08/21/2021		6. Reviewed by: (Operations Section Chief Signature & Date) /s/ Shane Sturgill						
7. Signature:		8. Title:		9. Date:						
10. Hazard		11. Risk		12. Residual Risk						
13. Hazard Probability		14. Severity		15. Risk						
16. Task		17. Hazard Control Assignment		18. Task Necessary?						
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 when heavy smoke impacts lines, wood poles burn thru and lines are low or on the ground. Always treat lines down as energized. Homeowners turning generators can backfeed the electrical grid, so even if utility personnel confirm the power is off, it may	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 ambulance), coordinate medicare 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 helipad including airports remote (up to 50 miles) from fire. Provide ALS level care to each division (day & night) with dedicated line medic teams, REM's, with additional capacity using ALS ambulances. DIVS & Field OPS ensure Medical (M) plan is in place on each staffed division each shift. DIVS ID closest helipad and an alternate helipad at the beginning of each shift, confirm your helipads are on the OPS map.	Possible	Critical	High	YES	MED/Section Chiefs/DIVS
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 HEDB 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 camps as needed (if transportation times approach 1 hour or greater). Utilize virtual briefings to minimize driving time 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 roadworthiness, 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	Chainaw - 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 beams 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 Tasks	Medical - Heat Related Illness	Possible	Critical	High	Refer to IRPG pg 109 for mitigations. Utilize the "Heat Related Illness" info available thru the QR code on the cover of the IRPG to determine levels of heat and work to reduce heat exposure to a safe level.	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. DIVS & Field OPS ensure Medical (M) plan is in place on each staffed division each shift, DIVS ID closest helipad and an alternate helipad at the beginning of each shift, confirm your helipads are on the OPS map.	Unlikely	Critical	Moderate	YES	Medical Section Chief MED/C's
All Incident Operational Tasks	Hazard Trees/Snags	Possible	Critical	High	Utilize qualified fallers to evaluate/drop HT's, communicate HT's through the work shift, tag HT's as needed. Coordinate drop operations with hand tools.	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 Operations). Aerial operations pilots know about wires, always advise pilots of known aerial hazards.	Rare	Catastrophic	Moderate	YES	All Operations Personnel Division Supervisors ATDS
Firing Operations - Ground	Burns - Flammable/Combustible Liquids	Possible	Critical	High	Ensure any burning operations include a safety briefing on drip torch's and recent burn injuries resulting from unreasonable distances between 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 HEDB
Point Protection / Structure Protection	Electrocution - Power Lines	Possible	Critical	High	Review IRPG page 12 for WUI mitigations and page for 24 for structure protection.	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 that Haz 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 (BAT 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 manufactures limits, do not overload UTV's. Avoid aftermarket roof racks that change the CG 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.	Unlikely	Critical	Moderate	YES	UTV Operators I
All Incident Operational Tasks	Smoke Inhalation	Possible	Moderate	Moderate	Legs & 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 equipment.	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 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 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 that Landing Zone Briefing is transmitted to pilots prior to landing, if hoist or short haul operations are occurring ensure extraction location hazards such as heights 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 IWIC
Night Medevac	Human Factors - Experience & Training	Rare	Catastrophic	Moderate	Plan for night medevac operations by ensuring strobes & headlamps have fresh batteries, glow sticks (use red not green) are available, confirm alert hazards such as powerlines do not exist in area of operations (helipads, short haul, or hoist), know location of closest LZ and alternate LZ.	Rare	Catastrophic	Moderate	YES	Division Supervisors IWIC
Patrol/Secure Fires Edge/Mop-Up	Burns - Ash PZ/Stamp Holes	Unlikely	Critical	Moderate	Avoid or closely evaluate the need for mop up activities in areas where woody material could be buried under soil (near banks, stream beds) resulting in a fall into an ash pit.	Rare	Critical	Moderate	YES	Division Supervisors
Saw Usage	Chainaw - 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 drivers 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 Tasks	Allergic Reaction - Insects/Animals	Possible	Moderate	Moderate	Identify individuals with known allergic reactions, make epi pen 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 LDR and or LE. Maintain closure points on roads as needed. Team PIO & LDR to provide clear information related to evacuation status and evacuation locations and or provide active links to agencies providing public notifications.	Possible	Negligible	Low	YES	Division Supervisors LDR 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, Siskiyou County road dept) for monitoring / signage. Coordinate with LE.	Rare	Moderate	Low	YES	Team Safety Officer LDR
Provide for Public Safety	Smoke Inhalation	Possible	Moderate	Moderate	PIO messaging to include an quality concerns and public health information links to state and or county health departments about air quality concerns.	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 1-800-448-4715 to notify of any damage to tracks, burning ties, etc.	Unlikely	Moderate	Low	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 water table issues.	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