

RISK ASSESSMENT MATRIX		PROBABILITY					
		Likelihood of Mishap if Hazard is Present					
		Almost Certain (Continuously experienced)	Likely (Will occur frequently)	Possible (Will occur several times)	Unlikely (Improbable; but has occurred in the past)	Rare (Remotely possible; but highly improbable)	
SEVERITY	Consequence if Mishap Occurs	Catastrophic (Death, Loss of Asset or Mission Capability or Unit Readiness)	Extremely High	Extremely High	Extremely High	High	Medium
	Critical (Permanent Disabling Injury or Damage, Significantly Degraded Mission Capability or Unit Readiness)	Extremely High	Extremely High	High	Medium	Medium	
	Moderate (Non-Permanent Disabling Injury or Damage, Degraded Mission Capability or Unit Readiness)	High	High	Medium	Low	Low	
	Negligible (Minimal Injury or Damage, Little or No Impact to Mission Capability or Unit Readiness)	Medium	Medium	Low	Low	Low	
		Risk Assessment Codes (RAC)					
		Extremely High=1 High=2 Medium=3 Low=4					

Risk Assessment Codes

RAC Value	Risk Category	Action Required
1	Extremely High	Stop, Mitigation Required
2	High	Mitigation Needed, Consider Stopping
3	Medium	Mitigation Recommended
4	Low	Possible Acceptance, Mitigation Optional

**Reference specific agency policy regarding action required based on risk category*

Risk Assessment Worksheet

SYSTEM: Batch Plant & Mix Transfer System Operations		Pre-Mitigation				Post Mitigation							
Sub System	Hazard(s)	Probability	Severity	Risk Level	Mitigation(s)	Probability	Severity	Risk Level	Additional Local Mitigation(s)	Probability	Severity	Overall Risk	Mitigation Achieved?
													Yes/No
Driving, Batch Plant, Trailer Towing Haz-Mat	Accident/Incident involving Haz-Mat	Possible	Critical	High	Conduct pre-trip inspection, Only CDL drivers with hazmat & tanks endorsements may tow the batch plant trailer. Utilize aerial Ignition Guide: Regulatory Issues/Transportation Requirements and Inspection Checklist. Must have agency trailer endorsement for USFS.	Unlikely	Critical	Medium		Choose an item.	Choose an item.	Medium	YES
CDL Driving	Driving beyond service hour regulations	Possible	Critical	High	Observe the fire program requirements on driving time and work/rest ratio. Agency records will provide proper evidence of driver's hours of service.	Rare	Critical	Medium		Choose an	Choose an	Medium	YES
Batch Plant/Mixing Operations	Improper use of equipment	Possible	Critical	High	Read manufactures manual, and checklist. Wear proper PPE (static free clothing, hard hat, ear/eye protection, gloves, and boots). Ensure supervision by HTMM qualified operator. Become familiar with pump operation and valves prior to mixing fuel.	Unlikely	Critical	Medium		Choose an item.	Choose an item.	Medium	YES
Batch Plant/Mixing Operations	Exposure to fuel vapors/chemical vapors and agents while mixing	Possible	Moderate	Medium	Take required aerial ignition training, comply with aerial ignition guide standards and wear required PPE, follow aerial ignition guide chapter 4, Fuel Preparation and MSDS Appendix C and Appendix F-Bonding Procedures.	Unlikely	Moderate	Low		Choose an	Choose an	Low	YES

Batch Plant/Mixing Operations	Risk of static electricity causing ignition of vapors	Unlikely	Catastrophic	High	Utilize approved aerial ignition equipment with static bonding throughout system, wear appropriate PPE fibers, no cell phones or radios within 50' of mixing area.	Rare	Catastrophic	Medium		Choose an	Choose an	Medium	YES
Batch Plant/Mixing Operations	Slips, trips and falls from trailer	Possible	Critical	High	Work methodically, keep surfaces dry and clean.	Unlikely	Critical	Medium		Choose an	Choose an	Medium	YES
Batch Plant/Mixing Operations	Equipment malfunction or failure	Possible	Moderate	Medium	Complete daily helitorch mixing system checklist. Correct all identified issues.	Unlikely	Moderate	Low		Choose an	Choose an	Low	YES
		Choose an	Choose an	Choose an		Choose an	Choose an	Choose an		Choose an	Choose an	Choose an	Choose an item.
		Choose an	Choose an	Choose an		Choose an	Choose an	Choose an		Choose an	Choose an	Choose an	Choose an item.
<p><i>*Final Risk Value is the overall risk of the mission/flight after all mitigations have been implemented. Overall risk cannot be lower than the highest risk after mitigations. One high risk rating will result in the overall risk being high. It is not an average.</i></p>									Final Risk Value:	Medium			
Prepared By:		Title:							Date:				
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