

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RISK MANAGEMENT WORKSHEET

1. Organization and Location Albuquerque District			2. Page <u> 1 </u> of <u> 7 </u>		
3. Operation / Task Masticator Operations	4. Beginning Date: Review by project and as needed	5. Ending Date: Ongoing	6. Date Prepared January 2012		

7. Prepared by (Name / Duty Position) *Jonathan Smith DAFMO*

8. Identified Hazards (Be Specific)	9. Assess the Hazards: Initial Risk				10. Control Measures Developed for Identified Hazards: <i>(Specific measures taken to reduce the probability of a hazard)</i> (Be Specific)	11. Assess the Hazard's Residual Risk:				12. How to Implement the Controls: (May Be Filled in By Hand) (Be Specific)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.) (Be Specific)	
	L	M	H	E		L	M	H	E			
Pre-operation:												
1. Driving to and from worksite		X			Practice attentive and defensive driving techniques. Drive with lights on. Cell phone use is prohibited while driving.		X			Driver training, BLM Directives on driving.	Supervisor, Operator, Passenger, crew.	
b. Steep narrow roads			X		Reduce speed to ensure adequate stopping capability.		X			Driver training, Use experienced operators.	Supervisory checks.	
c. Transporting tools and equipment.		X			Secure loads using tie-downs, mounts or boxes to avoid hazards to passengers and other vehicles.		X			Double check load by crew member.	Supervisory checks or project lead inspections.	

14. Remaining Risk Level After Control Measures Are Implemented: (CIRCLE HIGHEST REMAINING RISK LEVEL)

LOW
(Line Supervisor)

MEDIUM
(Branch Chief)

HIGH
(DSD, District or
Field Manager)

EXTREMELY HIGH
(Must be State Director/Associate)

15. RISK DECISION AUTHORITY: **(Approval/Authority Signature Block)** (If Initial Risk Level is Medium, High or Extremely High, Brief Risk Decision Authority at that level on Controls and Control Measures used to reduce risks) **(Note:** if the person preparing the form signs this block, the signature indicates only that the appropriate risk decision authority was notified of the initial risk level, control measures taken and appropriate resources requested; and that the risk was accepted by the decision authority.)

(Signature)

CONTINUED

8. Identified Hazards	9. Assess the Hazards: Initial Risk				10. Control Measures Developed for Identified Hazards: <i>(Specific measures taken to reduce the probability of a hazard)</i>	11. Assess the Hazard's Residual Risk:				12. How to Implement the Controls: (May Be Filled in By Hand)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.)
(Be Specific)	L	M	H	E	(Be Specific)	L	M	H	E	(Be Specific)	(Be Specific)
d. Hauling flammable substances.		X			Used approved and labeled containers secured outside the passenger compartment.	X				Check BLM directives and be familiar with DOT transportation regulations.	Supervisor, operator and crew.
e. Loading vehicles.		X			Use proper lifting techniques. Get assistance when needed.	X				Tailgate safety training and experience.	Supervisor, operator and crew.
f. Backing or turning around in small areas.		X			Use spotters. Face the hazard while turning around. Avoid tight turnaround if possible.	X				Tailgate safety training and experience.	Supervisor, operator and crew.
g. Winter driving.			X		Check weather forecast. Know vehicle limitations. Use proper tires. Anticipate by carrying tire chains, tow chain and shovel.			X		Tailgate safety training and experience.	Supervisor, operator and crew.
i. Vehicle condition		X			Perform scheduled vehicle maintenance and periodic safety checks. Keep windshield clean, wipers in good condition, driver's area clean of debris.	X				Tailgate safety training and experience.	Supervisor, operator and crew.
j. Driver fatigue.				X	Employees will not exceed 8 hours of driving time (behind the wheel) in a 16 hour period. Breaks of 15 minutes are recommended every 2 hours.				X	Daily, weekly, monthly vehicle checks.	Supervisor monitors drivers and conditions.
k. Parking		X			Park vehicle only in areas free from traffic, overhead and other hazards. Secure parking brakes and/or block tires.	X				BLM directives, driver training and self-evaluation.	
2. Heavy Equipment Transport											
a. Equipment loading and unloading.			X		Load and unload equipment in safe areas. Use traffic controls where needed. Ensure equipment is properly situated and secured on the trailer.				X	Tailgate safety training and experience.	Operator and crew.
b. Hauling		X			Ensure tractor and trailer are adequate for equipment weight.	X				CDL operator with experience and training.	Supervisor with periodic checks.
c. Oversize loads			X		Use flagging and /or chase vehicle as required by law. Scout roads and be familiar with your route.				X	CDL operator with experience and training.	Supervisor with periodic checks.

CONTINUED

8. Identified Hazards	9. Assess the Hazards: Initial Risk				10. Control Measures Developed for Identified Hazards: <i>(Specific measures taken to reduce the probability of a hazard)</i>	11. Assess the Hazard's Residual Risk:				12. How to Implement the Controls: (May Be Filled in By Hand)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.)
(Be Specific)	L	M	H	E	(Be Specific)	L	M	H	E	(Be Specific)	(Be Specific)
d. Steep, narrow roads, bridges			X		Pre-scout roads and bridges to verify they will accommodate tractor/trailer. Reduce speed to ensure adequate stopping capability. Lights on.		X			CDL operator with experience and training.	Supervisor, operator and crew.
Operation: 1. Pre-operations inspection a. Slipping/falling while mounting or dismounting equipment. b. Know your equipment before operation. c. Inspect your work area. d. Public notification and safety. 2. Masticator operation a. Dust and noise.			X		Operator should keep firm grip on handrails and footholds getting on/off masticator. Operator should always face the machine when mounting and or dismounting. Never jump off of masticator.		X			Conduct pre-operation tailgate session / crew briefing. Review risk assessment.	Supervisor with periodic checks.
			X		Equipment to be operated by trained authorized individuals only.. Read and be familiar with manuals, checklists and safety summaries and operating procedures.	X				Read and review manuals, develop checklists for daily use. Ensure operators are properly trained and authorized.	Supervisor review.
			X		Be familiar with work area and inspect site hazards such as power lines, fences, steep slopes, wet areas and inoperable areas on a daily basis.		X			Know the work plan, know your work unit and evaluate and plan daily assignment.	Supervisor with periodic checks.
			X		Post signs and/or use roadblocks if needed to ensure public safety. Any public in the vicinity of operating equipment should be monitored and kept at a safe distance. No one should be within 300 feet of masticator while it is operating.		X			Be aware of your work environment. Utilize crew member to monitor work area and maintain distance from equipment to ensure public safety.	Supervisor.
			X		Maintain seals on equipment cab. Use dust masks and hearing protection (PPE). Avoid operating in excessively dusty conditions. Do not operate if visibility is impaired by dust.		X			Clean windows and cab area to maintain visibility and integrity of cab. Utilize PPE. Review operational safety checklists often.	Supervisor

CONTINUED

8. Identified Hazards	9. Assess the Hazards: Initial Risk				10. Control Measures Developed for Identified Hazards: <i>(Specific measures taken to reduce the probability of a hazard)</i>	11. Assess the Hazard's Residual Risk:				12. How to Implement the Controls: (May Be Filled in By Hand)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.)
(Be Specific)	L	M	H	E	(Be Specific)	L	M	H	E	(Be Specific)	(Be Specific)
b. Passengers.			X		Cab is designed for one person only. Do not allow anyone to ride on the machine there is always the threat of being thrown or hit by foreign objects.	X				Review of safety summaries at tailgate safety meetings.	Supervisor with periodic checks.
c. Ending operation , parking or leaving machine.			X		Before leaving masticator machine must be shut down with cutting head lowered to the ground. Parking brake must be applied.	X				Operator and crew experience and review of safety summaries.	Supervisor with periodic checks.
d. Fueling			X		Only fuel in safe area. Shut down equipment before fueling. Avoid open flame within 50ft. Avoid spilling fuel on equipment, vehicles, soil or watercourses. If a spill occurs immediately cleanup. Use proper clothing and gloves to avoid exposure to fuels.		X			Training. Operator and crew experience and review of safety summaries.	Supervisor, operator and crew.
e. Operator Fatigue		X			Under normal circumstances work shifts, including travel time will not exceed 12 hours a day or 6 days a week.	X				Monitor work load and be aware of BLM, DOI and DOT policy.	Supervisor, operator and crew.
f. Personnel injury during operation.			X		Operators should be trained in first aid /CPR. Maintain first aid kits in service vehicles. Have cell phones and/or radios available to contact agency and emergency response personnel in event of serious accident.		X			Training and written work plan for specific project. Discuss response during tailgate safety sessions.	Supervisor, operator and crew.
Equipment Maintenance:											
1. Equipment maintenance.											
a. Operating pumps, welders and other equipment.			X		Use appropriate hearing and eye protection, gloves, boots and clothing to avoid injury. Avoid loose clothing and rings that may be caught in machinery. Confine welding to well-ventilated areas. Use respirator when welding brass or painted metals containing lead or zinc. Observe necessary fire precautions particularly when welding in the field.		X			Training. Operator and crew experience and review of safety summaries.	Supervisor, operator and crew.

CONTINUED

8. Identified Hazards	9. Assess the Hazards: Initial Risk				10. Control Measures Developed for Identified Hazards: <i>(Specific measures taken to reduce the probability of a hazard)</i>	11. Assess the Hazard's Residual Risk:				12. How to Implement the Controls: (May Be Filled in By Hand)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.)
(Be Specific)	L	M	H	E	(Be Specific)	L	M	H	E	(Be Specific)	(Be Specific)
b. Fluids and materials.			X		Do not tamper with any hydraulic line while it is pressurized. Escaping fluid under pressure can penetrate the skin, causing serious injury. Relieve pressure before unhooking hydraulic lines or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under pressure. Use a piece of cardboard to search for leaks.	X				Follow specific safety guidelines for hydraulic system maintenance. Use proper PPE for task. Experienced operator should direct maintenance procedures.	Operator and crew.
c. Lifting tools, parts and materials.		X			Use proper lifting techniques, get help if needed.	X				Experience and recurrent training.	Supervisor, operator and crew.
d. Stabilizing or raising equipment.			X		Do not allow personnel under raised lift arms or masticator head for any reason unless lift arms are supported so they cannot fall in any way.		X			Training. Operator and crew experience and review of safety summaries.	Operator and crew.
e. Site hazards.		X			Whenever available select accessible, level secure sites for field maintenance and repairs. Avoid sites with traffic, overhead power lines or other hazards.	X				Training. Operator and crew experience and review of safety summaries.	Supervisor, operator and crew.
f. Safety marking and decals.		X			Replace and safety decals that are faded, torn, missing, illegible or otherwise damaged. See equipment parts manual for replacement decal kits.	X				Operator and crew experience and review of safety summaries.	Operator and crew.
Communications											
1. Communications			X		Have access to cell phones and/or radios for hazard notification and emergency communications. Develop and have available a communications plan for each project to identify routine and emergency contact numbers.	X				Experience and written work plan for specific project. Review communications procedures at tailgate safety session.	Project coordinator. Supervisor, operator and crew.

CONTINUED

8. Identified Hazards	9. Assess the Hazards: Initial Risk				10. Control Measures Developed for Identified Hazards: <i>(Specific measures taken to reduce the probability of a hazard)</i>	11. Assess the Hazard's Residual Risk:				12. How to Implement the Controls: (May Be Filled in By Hand)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.)
(Be Specific)	L	M	H	E	(Be Specific)	L	M	H	E	(Be Specific)	(Be Specific)
Weather:											
1. Lightning			X		Avoid electric lines, fences or metal structures. Avoid ridge tops, streams or lakes and areas beneath tall trees. Seek shelter in motor vehicles, avoiding contact with metal surfaces.			X		Training and experience.	Supervisor, operator and crew.
2. Operating machinery in windy conditions.			X		Void areas near trees (particularly snags and leaning trees) power lines. Even in moderate winds wear hardhat when working between trees.			X		Training and experience.	Supervisor, operator and crew.
3. Flooding and wet conditions			X		Avoid low areas during potential flash floods even though it may not be raining in the vicinity. Be aware of slope and traction when ground is slick with rain or snow. Conduct site inspection after rain or snow to ensure safe conditions. If operating in flood area get weather forecast and monitor.			X		Training and experience. Wx forecast, spot forecast	Supervisor, operator and crew.
Potentially Violent Personal encounters:											
1. Crossing or working around private land or personal use areas.		X			Plan ahead, request permission or provide notification to potentially affected residents	X				Review job plan and maps, Walk the unit and flag boundaries.	Project coordinator. Supervisor.
2. Potential illegal activities.		X			Be aware of potential criminal activity (illegal dumping, vandalism, drug labs) and watch for warning signs during personal encounters.		X			Know the area of work stay aware of people in the area. Training and use of BLM Law Enforcement.	Project coordinator. Supervisor. BLM Law Enforcement.
Hazardous Materials:											
1. Hazardous material use (including Flammable and combustible liquids).			X		Hazardous material (such as gasoline, diesel, hydraulic fluid, acetylene, batteries) storage, transportation and use will strictly conform with product labels and Material Data Sheets (MSDS) which will be available to all potentially affected employees.			X		Training, experience, safety checklists. Review MSDS Data sheets.	Project coordinator. Supervisor.

CONTINUED

8. Identified Hazards	9. Assess the Hazards: Initial Risk				10. Control Measures Developed for Identified Hazards: <i>(Specific measures taken to reduce the probability of a hazard)</i>	11. Assess the Hazard's Residual Risk:				12. How to Implement the Controls: (May Be Filled in By Hand)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.)
(Be Specific)	L	M	H	E	(Be Specific)	L	M	H	E	(Be Specific)	(Be Specific)
2. Exposure to hazardous materials.			X		Use proper personal protective equipment (including hats, goggles, long sleeve shirts, trousers, boots and gloves when working around hazardous materials.		X			Training, experience, safety checklists. Review MSDS Data sheets. Tailgate safety session.	Project coordinator. Supervisor, operator and crew.
3. Hazardous materials disposal.			X		Fully utilize hazardous materials to minimize waste. Disposal of hazardous materials and wastes will conform to products labels, MSDS sheets and applicable laws.		X			Training, experience, safety checklists. Review MSDS Data sheets. Tailgate safety session.	Project coordinator. Supervisor, operator and crew.

