

Job Hazard Analysis

(Always Wear Proper PPE)

Project:	Superintendent:
Task: Screening and Crushing Operations	Date:

Step	Potential Hazards	Safe Procedures/ Crew Responsibilities
Preparation	General mining hazards	<ul style="list-style-type: none"> All workers must have MSHA training and annual refresher Notify MSHA of crusher or screening plant move into pit Designate a Competent Person Review P3 (Preparation Planning Procedures) and JHA (Job Hazard Analysis) with crew Complete and review STA (Safety Task Assessment) daily
Clear and strip pit areas as needed* * Complete and follow JHA for Clearing and Grubbing	Hitting underground utilities	<ul style="list-style-type: none"> Notify Dig Safe and all non-member utilities prior to start Maintain all utility markings Use hand tools to dig within 18" of a marked utility line
Grade set-up area for plant and stockpiles	Trip, slip and fall hazards	<ul style="list-style-type: none"> Grade walking / working surface and remove large rocks and other trip hazards Sand icy areas Install railing or utilize fall protection for work over 6' high
Set up screening or crushing plant, power supply, stackers, etc.	Personnel struck by parts of plant during assembly	<ul style="list-style-type: none"> Assembly done by trained personnel, using proper rigging methods with lifting and rigging equipment in good shape Use tag lines to help guide lifted parts into place; do not walk next to parts being lifted and moved
	Electrocution	<ul style="list-style-type: none"> Assure proper grounding on electrical equipment

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Screen / crush materials	Eye injury	<ul style="list-style-type: none"> All persons not in trucks or equipment wear safety glasses
	Noise hazard	<ul style="list-style-type: none"> Wear hearing protection when noise levels cannot be reduced to below 90 dBA
	Silica dust / nuisance dust	<ul style="list-style-type: none"> Use water and/or calcium as needed to control dust on haul roads Use watering system on screening or crushing plant as needed for dust control Use respiratory protection if dust can't be eliminated by other means; medical evaluation, fit test, and respirator training are required
	Personnel caught in pinch points	<ul style="list-style-type: none"> Install guards over potential pinch points Follow proper lockout - tagout procedures
Load and haul materials	Falls from equipment	<ul style="list-style-type: none"> Use 3-points of contact to enter or exit equipment or trucks
	Hauling and loading units hitting or backing into each other	<ul style="list-style-type: none"> All trucks and equipment have working back up alarms If possible, have haul units drive forward to loading unit and when backing up is required, driver must know what is behind at all times Use mirrors Utilize turnarounds to minimize backing
	Personnel struck by equipment	<ul style="list-style-type: none"> Make eye contact with operator before approaching trucks or equipment Wear high-visibility vests at all times Give machines the right of way Keep unnecessary people and equipment away from pit area
	Personnel hit by falling materials	<ul style="list-style-type: none"> All persons outside of trucks and equipment wear hard hats Stay in haul unit while being loaded Never stand next to a truck that is being loaded
	Loading unit engulfed by	<ul style="list-style-type: none"> Avoid pit face overhangs and keep face height low enough for safe

	bank or face	operation
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Load and haul materials continued	Ground personnel engulfed by caving pit face	<ul style="list-style-type: none"> • Keep vehicles and people away from working pit face
	Loading unit falls from bench cut	<ul style="list-style-type: none"> • Keep loading unit a safe distance from edge of cut and berm along top edge
	Haul unit goes off the haul road, causing rollover	<ul style="list-style-type: none"> • Keep all haul roads smooth • Place berms along tops of steep slopes where trucks and equipment travel
Stockpile materials** ** For stockpile operations, complete Stockpile JHA	Stockpile shifts, causing truck or equipment rollover.	<ul style="list-style-type: none"> • Travel roads onto stockpiles are away from edges and have berms along sides • Keep all dump areas level and bermed
	Haul unit tips over when dumping	<ul style="list-style-type: none"> • Dump with truck axles level
Other Steps (if any):	Other Hazards:	Other Safe Procedures: