

Job Hazard Analysis

(Always wear proper PPE)

Project:	Superintendent:
Task: Blasting Support / Placing Blasting Mats	Date:

Step	Potential Hazards	Safe Procedures/ Crew Responsibilities
Preparation		<ul style="list-style-type: none"> • Designate a Competent Person: Blaster MUST direct placement of mats • Review P3 (Preparation Planning Procedures) and Hazard Analysis with crew • Complete and review STA's daily • Assess location and conditions* <p>*If work is to be performed in a travel way, complete and follow Job Hazard Analysis for 'Work in Travel Way'</p>
Review basic drilling and blasting requirements with Blaster	Uncontrolled explosion	<ul style="list-style-type: none"> • Meet requirements of OSHA 1926, Subpart U, including: • Use proper warning signs and blasting signals • No smoking within 50 feet of explosives • Do not transport blasting caps and explosives in same vehicle • Vehicles for transporting explosives are properly marked • Explosives in transport vehicle shall not be left unattended • Blasting caps and explosives are stored in separate magazines • No drilling or excavating within 50 feet of a loaded hole • Following each blast, blaster inspects to determine if all charges have fired before employees return to blast area • Unexploded charges must be found and re-fired before drilling or mechanical excavation is started within 50 feet of a misfire • Sargent Corp employees shall not assist in locating a misfire • No drilling in a hole that has previously contained explosives

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Set mats for Blaster Remove mats Store mats	Rollover of machine placing mats	<ul style="list-style-type: none"> Determine the size and weight of mats in advance to be sure that the machine used is properly rated to lift and set mats Use an experienced operator who understands and follows the excavator's load charts Set machine up for its most efficient lifting capacity
	Damage to blast wire	<ul style="list-style-type: none"> Follow Blaster's directions when setting and placing mats Do not set or remove mats if the Blaster is not present
	Overhead electrical or telephone lines	<ul style="list-style-type: none"> Follow 10' overhead clearance rule
	Rigging failure	<ul style="list-style-type: none"> Use rigging that is properly sized for the load Rigging must be positively attached to the excavator Inspect rigging prior to use
	Personnel being hit by mats or machinery	<ul style="list-style-type: none"> Maintain a safe distance from machine and mats at all times
	Hit by debris falling out of mats while being moved	<ul style="list-style-type: none"> Inspect mats for debris before/after blast Maintain a safe distance from machine and mats at all times
	Damage to machine and personnel due to fly rock or explosion	<ul style="list-style-type: none"> Establish proper site traffic control plan Vacate blast area per Blaster's signals Move a safe distance from blast zone After "all clear" signal, wait until Blaster has inspected to determine that all charges have fired before entering and continuing work in blast area NEVER use an excavator to dig up/locate a misfire

Other Steps (if any):	Other Hazards:	Other Safe Procedures:
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