



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis

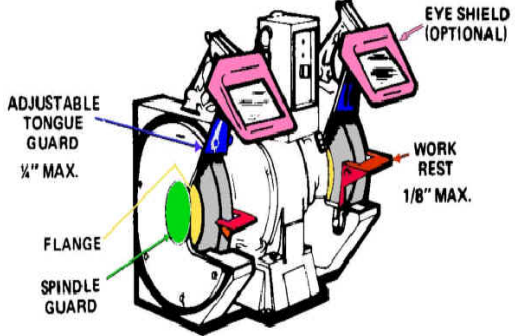
Safety Information for The University of North Carolina at Chapel Hill

JOB SAFETY ANALYSIS TOPIC: Energy Services

CoGeneration Facility Maintenance Shop- Operating the Baldor Pedestal Grinders



Title	Work Task	Hazards	Controls
	<p>1. Check position of tool rest and condition of wheels</p>	<p>1. Loose or poorly adjusted tool rests present pinching hazards.</p> <p>Cracked or broken wheels present projectile hazards.</p>	<p>1a. Confirm wheels are not cracked or broken.</p> <p>1b. “Hands-On” Training of the operation of the pedestal grinder by only qualified, most experienced Maintenance Mechanic.</p> <p>1c. Perform a pre operational check and review safety instructions before operating. The below OSHA inspection checklist may be used prior to operating.</p> <p>1d. Do not wear loose clothing or clothing that extends near the hands, or gloves, or jewelry that could get caught in equipment during operation.</p> <p>1e. Do not grind on aluminum or other “Soft Metals”.</p>

	Work Task	Hazards	Controls
	2. Turn on grinder.	2. Injury to exposed body parts (e.g. abrasion and burns to the hands) by the grinder at points of operation.	2a. Stand off to the side of the grinder when turning it on.
	Work Task	Hazards	Controls
	3. Grind Object.	<p>3a. Injury to exposed body parts (e.g. abrasion and burns to the hands) by the grinder at points of operation.</p> <p>Flying sparks and debris.</p> <p>Pinching hand.</p>	<p>3a. Ensure the grinder guard (adjustable tongue guard and spindle guards) is in required place prior to operation.</p>  <p>3b. Keep body parts and clothes away from the point of operation (away from the wheels) of the grinder.</p> <p>3c. Wear Safety Glasses and/or Face Shield during operation of the grinder.</p>
Training	Operation of the Pedestal Grinder; “Hands-On” Training of the operation of the pedestal grinder by only qualified, most experienced Maintenance Mechanic.		

	Standard 29 CFR 1910	Description	YES	NO ²
<i>From the Abrasive Wheel standard</i>				
	215(a)(2)	Do side guards cover the spindle, nut and flange and 75% of the wheel diameter?		
	215(a)(4)	Is the work rest used and kept adjusted to within 1/8-inch (0.3175cm) of the wheel?		
	215(b)(9)	Is the adjustable tongue guard on the top side of the grinder used and kept to within 1/4-inch (0.6350cm) of the wheel?		
	215(d)(1)	Is the maximum RPM rating of each abrasive wheel compatible with the RPM rating of the grinder motor?		
	215(d)(1)	Before new abrasive wheels are mounted, are they visually inspected and ring tested?		
Created	Daniel R. Gilleski, Occupational Field Hygienist, & Roger Phillips, COGEN Maintenance Mechanic September 22, 2008			
Referenced Material	Abrasive Wheel Operation Requirements- 29 CFR 1910.215; EHS Industrial Maintenance and Construction/Support Services Safety Manual- Machine Safeguarding Requirements Chapter			
Contact Info	<p>For more information about this JSA and other JSAs, contact: <i>Department of Environment, Health and Safety</i> UNC-CH, 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650 (919) 962-5507 ● http://ehs.unc.edu</p>		