

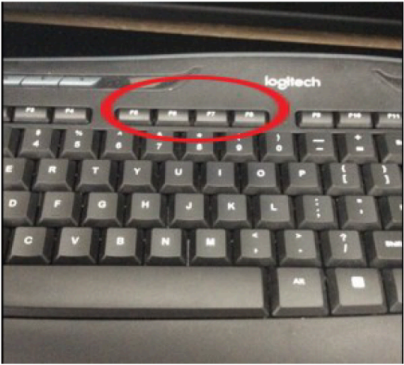

Division: Construction
 Project: Bridge Highway
 Location Descr.: Greenville; SC
 Ref. Number: 1
 Authored by: Matt Slump
 Updated Date: 06/05/2024



Rig To And Cement Casting










#	Task	Hazard	Control
1	Review JSA	Misunderstanding - L	Hazard Elimination (remove or substitute the hazard) Notes: Clarify job and associated hazards and safety concerns
		Fall (From Height) - M Notes: Falling from ladder	Enclosure: Enclosed cabs, enclose noisy equipment, etc. Notes: Notes
2	Hold pre-job meeting with cementers/crew	Misunderstanding - L	Hazard Elimination (remove or substitute the hazard) Notes: Everyone must pay close attention to ensure they understand clearly their role and responsibility during the cement job and job specifics
3	Stop circ. and remove top drive from casing	Caught In/Entanglement - L Notes: Pinch points and awkward equipment	Monitor/Oversight Notes: Two or more persons to perform task. Do not stand in front of person swinging hammer
4	Hook up steel lines and chicksans	Entrapment/Engulfment - M Notes: Pinch points and crushing lines falling under pressure. Improper hook up not allowing reciprocating of the casing, causing a poor cement job	Operating Procedures/Safe Work Practices Notes: Assist some mentors in assembling their iron. Stay clear of person using hammer. Ensure that first chicksans has safety cable installed and attach to bails. Casing is reciprocated and free movement of chicksans is tested prior to circ
5	Pressure test lines	Strain/Overexertion - M Notes: Equipment sailing under high pressures	Monitor/Oversight Notes: Signs installed near all lines under pressure. Kruse and personnel not required are assigned to designated areas away from work. Lines are checked for leaks from a distance and from watching pressure gauges
6	Mix and pump cement	Fire/Explosion - H Notes: Serious injury from high-pressure line or catastrophic equipment failure. Casing hydraulicing from hall, causing injury. Burns from cement splashing on skin	Operating Procedures/Safe Work Practices Notes: Lines were pressure tested prior to job and safety cables are utilized. Overpressure shut down switches are used on cementing units. Chains and boomers are employed prior to start of displacement.
			PPE: Eye/Face Protection (Safety glasses, face shield, goggles, etc.) Notes: Where proper PPE and have water available to wash from skin immediately
7	Lock out top drive	Struck By/Against (Sudden Impact) - M Notes: Accidentally hit wrong control, rotary, hoist	Monitor/Oversight Notes: Give instruction to personnel on floor that top Drive rotary is locked out. Perceived a tear out chicksans
8	Disconnect lines with tugger	Struck By/Against (Sudden Impact) - M Notes: Injury from someone watching in line of fire of chicksan with tugger	Training Notes: Give instruction of next step the top Drive lock out will be engaged. Stand clear
9	Unscrew casing nubbin drive from casing ring	Fall (From Height) - H Notes: Cement on air could come out of casing while casing nubbin screwed out	PPE: Hand Protection (Leather gloves, chemical gloves, electrical gloves, etc.) Notes: Stand clear of rotating top Drive. Air or cement could come out of casing, landing on skin. Where proper PPE. Have available water to wash

Required PPE	Required Training
1. Protective Clothing 2. Eye/Face Protection (Goggles) 3. Head Protection	

Photo(s)		
 <p>Locate Function Keys Task: Review JSA</p>	 <p>Task: Pressure test lines</p>	 <p>Task: Lock out top drive</p>
 <p>Task: Disconnect Line using tugger Task: Disconnect lines with tugger</p>		

Company: Slump Enterprise
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I have reviewed and understand the above Job Safety Analysis Plan:

 Zach Anderson	 Frank Brown	 Frank Conner
 Ryan Davidson	 Tucker Drake	 Christi Fabela
 Charles Hart	 Kyle March	 Hank Roberts