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SAFE OPERATING PROCEDURES

Hydraulic System Repairs

SOP 11A-11

Hazard Review

High Pressures Skin Abrasions Lifting	Slip, Trip and Fall Crushing Injuries	High Temperatures Infection From Oil Penetration
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Required Personal Protective Equipment (PPE)

Safety Shoes Gloves	Safety Glasses/Face Shield	Protective Clothing/coveralls
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1. Never begin work on a hydraulic system until fully trained.
2. Carefully review the manuals on equipment before beginning work. Ask questions about anything you do not fully understand.
3. Maintain a clean work area free of slipping hazards and debris.
4. Use all required safety equipment.
5. Always use safety glasses.
6. Block, secure or lower to the ground all components that may move, rotate or fall.
7. Relieve system pressures. (Note: Some systems use accumulators that store pressure. Identify the system before working on it.)
8. Use extreme caution when disconnecting hydraulic lines. Severe burns from hot fluid can result.
9. Use test equipment designed for higher pressures than the system being repaired. Use of gauges, lines, connectors, etc., designed for lower pressures can result in bursting or equipment damage. Start with high pressure gauges and work down. (Note: A good rule is to use equipment rated at twice what is expected. Example: For a 2500-psi system, use a 5000-psi gauge.)
10. DO NOT USE HANDS OR FINGERS to find leaks. Fluid under high pressure can be injected into skin causing extreme injury and serious infection.
11. Clean up spills immediately. Hydraulic fluid is an oily substance, which can cause slipping, falling and resulting injuries.
12. Do not work under equipment/apparatus being supported by hydraulics. Stops, safety pins, etc. must be in place prior to beginning repairs.
13. Review MSDS's for all chemicals used.

Related SOP's

General SOPs	Chapter 10	Hoisting/Jacking	11A-9
Maintenance and Repair Shops (General) ..	11A-21	Mechanic Operations	11A-22
Ferry Engineering	11B-29	Ferry Field Maintenance	11B-32
Ferry Operations	11B-33	Ferry Shore Facilities	11B-34
Roadside Equipment Repair.....	11B-62	High Pressure Hoses	11E-6