

Hydraulic Hose Replacement on Isolated Equipment - JSA - C

en-US · Supervision, records, handover · v1.0 · 2026-10-14 · Sources: article section 9

Site: | Item ID: | Work area:

Approval	Work supervisor	Technical reviewer	Release / handover authority

1. Job details and team signatures

Date / time		Location / area		Assessor		Supervisor	
Team signatures							

2. Conditions and hold points

Stage	Time	Location / area	Environment / readings	Item / condition	Controls	Plant / tools	Approval / signature
HP-0 Start							
HP-1 Control residual pressure							
HP-2 Fit and route assembly							
HP-3 Hold and correct faults							
HP-4 Record and hand over							

Complete after actual checks. Recheck after changes, defects or shift handover.

3. JSA risk assessment

Job stage	Hazards and effects	Failure factors	Technical and procedural controls	Site verification	P	S	R	A
1. Replacement definition	1. Wrong circuit opened 2. Incompatible assembly 3. Fluid hazard missed	1. Both ends not traced 2. Threads used as criterion 3. Operating data absent	1. Confirm circuit boundaries 2. Approve full assembly match 3. Review fluid and duty	1. Circuit and endpoint IDs 2. Part and seal specification 3. Pressure temperature and fluid				
2. Energy release	1. Supported load falls 2. Residual pressure release 3. Unexpected restart	1. Hydraulics used as support 2. Trapped segment ignored 3. Isolation custody unclear	1. Assign mechanical support 2. Review trapped energy paths 3. Verify isolation responsibility	1. Support arrangement 2. Both-side pressure method 3. Locks and authorized person				
3. Installation quality	1. Abrasion failure 2. Seal leakage 3. Hose twist rupture	1. Static fit accepted alone 2. Unapproved seal fitted 3. Clamp placement unchecked	1. Check full movement route 2. Verify complete part pairing 3. Inspect bend and supports	1. Assembly and fitting record 2. Motion clearance evidence 3. Fastening and routing result				
4. Test authorization	1. Injection exposure 2. Machine-motion injury 3. Burst-line strike	1. Test boundary absent 2. Leak checked by hand 3. Safeguards missing	1. Define protected test state 2. Require remote safe observation 3. Verify personnel clearance	1. Test procedure and controls 2. Restored safeguards 3. Recorded test conditions				
5. Fault correction	1. Repeated failure 2. Pressurized adjustment 3. Uncontrolled rework load	1. Cause not investigated 2. Isolation bypassed 3. Support not restored	1. Hold abnormal test findings 2. Require full safe reentry 3. Verify corrective evidence	1. Fault cause and location 2. Renewed energy verification 3. Repair and retest results				
6. Maintenance transfer	1. Wrong hose reordered 2. Missed early inspection 3. Restricted equipment used	1. Installed ID not recorded 2. Follow-up owner absent 3. Acceptance scope unclear	1. Preserve part traceability 2. Assign inspection interval 3. State permitted operating scope	1. Installed assembly record 2. Follow-up date and owner 3. Receiving authority and limits				

P/S/R/A: Complete only after actual site assessment using the site risk method.

4. Pre-work checklist

☐ Circuit and endpoint IDs	☐ Support arrangement	☐ Assembly and fitting record
☐ Test procedure and controls	☐ Fault cause and location	☐ Installed assembly record
☐ Pressure temperature and fluid	☐ Recorded test conditions	☐ Receiving authority and limits