

High-voltage switchgear positioning - JSA - C

en-SG · 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 Prepare route and base							
HP-2 Inspect lift arrangement							
HP-3 Land and secure							
HP-4 Transfer installation							

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. Shipping and electrical scope	1. Cabinet overturn 2. Wrong lift load 3. Adjacent electrical exposure	1. Group boundary unclear 2. Parts shift balance 3. LEW scope unverified	1. Match actual shipping group 2. Confirm mass and restraints 3. Agree electrical boundary	1. Group ID mass and centre 2. Manufacturer handling data 3. Voltage and LEW responsibility				
2. Transport route release	1. Pit-cover collapse 2. Wheel settlement 3. Crush at obstruction	1. Pedestrian rating assumed 2. Support path incomplete 3. Route changed silently	1. Review concentrated reactions 2. Verify full supporting path 3. Rebrief changed route	1. Wheel and contact layout 2. Cover bearing and structure 3. Route clearance and signals				
3. Lifting readiness	1. Rigging failure 2. Cabinet roof damage 3. Dropped internal part	1. Wrong pick points 2. Sling geometry unchecked 3. Door or restraint loose	1. Use specified lifting provisions 2. Check rated arrangement 3. Secure movable parts	1. Product and pick-point match 2. Rigging geometry and capacity 3. Door and shipping-restraint state				
4. Landing transfer	1. Cabinet overturn 2. Finger crushing 3. Anchor failure	1. Contact treated as stable 2. Hands beneath base 3. Restraint incomplete	1. Verify full bearing and level 2. Use suitable alignment tools 3. Release only after restraint	1. Base and foundation checks 2. Anchor and temporary restraint 3. Sling-release authority				
5. Lineup and repositioning	1. Cabinet distortion 2. Repeated shock damage 3. Electrical boundary breach	1. Bolts force alignment 2. Brackets removed too early 3. Rework not reassessed	1. Correct base and geometry 2. Follow model bracket sequence 3. Review rehandling and isolation	1. Alignment and fastening record 2. Bracket and brace status 3. Damage and rework disposition				
6. Electrical handover	1. Premature energisation 2. Hidden installation defect 3. Open-pit fall	1. Mechanical finish overclaimed 2. Earthing status assumed 3. Covers not restored	1. Retain commissioning holds 2. Transfer LEW inspection scope 3. Restore accepted access	1. Mechanical and damage record 2. Remaining tests and earthing 3. LEW acceptance and use limits				

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

4. Pre-work checklist

☐ Group ID mass and centre	☐ Wheel and contact layout	☐ Product and pick-point match
☐ Base and foundation checks	☐ Alignment and fastening record	☐ Mechanical and damage record
☐ Voltage and LEW responsibility	☐ Sling-release authority	☐ LEW acceptance and use limits