

High-voltage switchgear positioning - JSA - A

en-SG · Basic task controls · 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. Identify shipping group	1. Cabinet overturn 2. Wrong lifting load 3. Electrical exposure	1. Mass excludes equipment 2. Group boundary unclear 3. Adjacent live gear ignored	1. Match shipping drawings 2. Confirm mass and balance 3. Define electrical boundary	1. Group ID and mass 2. Lifting points and geometry 3. Isolation and adjacent limits				
2. Prepare route and base	1. Pit-cover collapse 2. Transport overturn 3. Pedestrian strike	1. Wheel load unchecked 2. Uneven route accepted 3. Shared access uncontrolled	1. Review concentrated loads 2. Accept full transport route 3. Separate people and movement	1. Cover and bearing basis 2. Wheel path and clearances 3. Exclusion and signals				
3. Trial lift and move	1. Suspended-load strike 2. Cabinet tilt 3. Crush at obstruction	1. People enter load zone 2. Centre of gravity wrong 3. Clearance changes	1. Check balance at trial lift 2. Keep exclusion effective 3. Stop for route change	1. Stable trial lift 2. Route and overhead clearance 3. People outside crush zone				
4. Land and secure	1. Cabinet overturn 2. Finger crush 3. Anchor failure	1. Support partly seated 2. Hands placed under base 3. Anchor detail wrong	1. Use safe alignment tools 2. Verify full support 3. Complete required restraints	1. Base seating and level 2. Anchor and temporary support 3. Stable released condition				
5. Join lineup	1. Cabinet distortion 2. Pinch between groups 3. Lost electrical continuity	1. Bolts force misalignment 2. Hands guide cabinet gap 3. Earthing status assumed	1. Correct base and alignment 2. Keep hands clear of gaps 3. Record earthing work status	1. Lineup and joint geometry 2. Specified fastening record 3. LEW earthing handover status				
6. Transfer installation	1. Unsafe energisation 2. Tools left inside 3. Open-floor fall	1. Mechanical finish overstated 2. Compartment check missed 3. Pit cover not restored	1. Separate electrical release 2. Account for tools and parts 3. Restore accepted floor covers	1. Mechanical inspection 2. Remaining electrical work 3. Access and cover condition				

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

4. Pre-work checklist

☐ Group ID and mass	☐ Cover and bearing basis	☐ Stable trial lift
☐ Base seating and level	☐ Lineup and joint geometry	☐ Mechanical inspection
☐ Isolation and adjacent limits	☐ Stable released condition	☐ Access and cover condition