

FIRST ENERGISATION AND LIVE-STATUS CONTROL

ACTIVITY RAMS — ADAPT TO SITE BEFORE USE

The dead-to-live boundary · every source of supply · other trades on an energised installation · plant that starts when power arrives

KD-RA-EL-004 Rev A0

Statutory basis: Electricity at Work Regulations 1989 regs 4, 12, 13, 14 and 16, with HSE guidance HSG85 (3rd edition, 2013). Voltage indicators, test leads and proving units to GS38 (4th edition, 2015). The installation is inspected and tested to BS 7671:2018+A4:2026 before it is put into service — Amendment 4 was published on 15 April 2026 and the previous amendment is withdrawn on or about 15 October 2026, so confirm which amendment the design was issued against. Plant that can start when power arrives must have its own means of isolation under PUWER 1998. The principal contractor plans, manages and co-ordinates the change of an installation from dead to live, and each contractor does the same for its own work, under CDM 2015 regs 13 and 15. This document is the recorded safe system of work required by HSWA 1974 s.2(2)(a) and MHSWR 1999 regs 3 and 5.

1 DOCUMENT AND PROJECT IDENTIFICATION

RAMS REFERENCE	PROJECT / SITE REF	SITE NAME AND ADDRESS	DATE PREPARED	NEXT REVIEW DATE
CLIENT / PRINCIPAL CONTRACTOR	PLANNED START	DURATION	OPERATIVES	SUPERVISING THE WORK

2 SCOPE OF WORKS

Controlling the change of a new or altered installation, or a part of it, from dead to live before handover: readiness checks, the permit to energise, notifying and clearing other trades, every source that can make it live, labelling and locking energised switchrooms and boards, plant and systems that start on energisation, and the live-status record. This document takes over live-status control from KD-RAMS-EL-005 at first energisation; KD-RAMS-EL-005 continues to govern the tests.

This document does not cover: the inspection and test procedure itself (KD-RAMS-EL-005), switching operations on energised switchgear (KD-RA-EL-001), connection to the distribution network (the distributor's work), and commissioning of the plant and systems the installation feeds (KD-RAMS-ME-009 and the owning contractors' documents).

SITE-SPECIFIC SCOPE, LOCATIONS AND LIMITATIONS

3 RISK ASSESSMENT — SCORE EACH RISK FOR THIS SITE, THEN ADD WHAT IS MISSING

The hazards and controls below are the starting point for this activity, written by a working main contractor. They are not complete for your site until a competent person has scored each risk, added the site-specific hazards, and struck out anything that does not apply. Rate risks High / Medium / Low before and after controls.

1. Another trade working on a circuit that has just become live

At risk: Other trades, own operatives

Controls: No circuit is energised until every contractor who can touch it has been told in writing and confirmed clear. Energisation notices at entrances and on affected floors; the site briefing names what goes live and when. Any lock or tag found stops the energisation; only its owner removes it.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

2. Energising onto an incomplete installation or a fault

At risk: The energising electrician, everyone nearby

Controls: Dead tests complete and recorded to BS 7671 for every circuit being energised; boards closed, covers and blanks fitted, test earths removed. GS38 indicator proved before and after use; polarity and phase rotation confirmed at the first board. Energise progressively from the origin, one board at a time, doors closed, standing to the side.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

3. Other sources making parts of the installation live — temporary supplies, PV, battery storage, generators, UPS

At risk: Electricians, other trades

Controls: Every source is shown on the live-status drawing. PV and battery storage stay isolated at their own isolators, and generators and UPS stay disconnected or switched off, until their own commissioning; temporary supply interconnections are removed or isolated before the permanent supply is energised.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

4. Nobody knows which parts are live — mixed dead and live installation

At risk: Everyone on site

Controls: Live-status drawing or board schedule kept current at the site office and on each floor. Energised boards and switchrooms labelled LIVE, unenergised ones labelled as such; nothing left unlabelled.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

5. Unauthorised access to energised switchrooms and boards

At risk: Other trades, the public

Controls: Switchrooms locked once energised, keys held by the named person in control; boards in open areas locked or covers secured; access only under the electrical permit system from that point.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

6. Plant and systems starting when power arrives — fans, pumps, lifts, sprinkler and booster pumps, smoke fans and vents, automatic doors and shutters

Controls: Before any supply to them is energised, each owning contractor confirms in writing that its equipment is isolated at the local isolator or is ready to run with guards and controls complete. Local isolators are locked off wherever anyone is working on the equipment.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

7. Energised boards damaged or wetted by work going on around them

At risk: Everyone nearby

Controls: Boards in areas where wet trades, drilling or plant are still working are covered and screened; energised boards in working areas checked daily. A board found damaged or wet is isolated upstream and reported before anyone touches it.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

Site-specific hazards not listed above — every site has at least one:

HAZARD	WHO IS AT RISK	CONTROLS	INITIAL H/...	RESIDUAL...	ACTION OWNER	BY WHEN

4 METHOD — SEQUENCE OF WORK

- 1 Confirm with the principal contractor the extent to be energised, the date and time, and who is the named person in control of energisation.
- 2 Check readiness board by board — dead tests recorded, covers and blanks fitted, labels and circuit charts complete, test earths removed.
- 3 List every other source — temporary supplies, PV, battery storage, generators, UPS — and confirm each is isolated or disconnected.
- 4 Issue the energisation notice to every contractor in writing and at the site briefing before the day; obtain written confirmation from each owner of plant and systems fed by the installation.
- 5 Walk the installation on the day. Any lock or tag found stops the energisation; only its owner removes it. STOP if anyone working on circuits to be energised cannot be accounted for.
- 6 Raise the permit to energise; clear the switchroom; post energisation notices.
- 7 Energise the origin; check voltage, polarity and phase rotation; then energise each board in turn from the side with doors closed.
- 8 Label each energised board and switchroom LIVE and lock switchrooms; update the live-status drawing after each board.
- 9 Hand over to the live tests under KD-RAMS-EL-005; brief the site that all further work is under the electrical permit system.
- 10 Close the permit to energise, check energised boards daily in working areas, and file the live-status drawing with the handover records.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE

5 PLANT, EQUIPMENT AND MATERIALS

- GS38 voltage indicator and proving unit
- Phase rotation indicator
- Lock-off kit and switchroom locks
- LIVE and energisation warning labels
- Live-status drawing and board schedule
- Board covers and screening for working areas

INSPECTION / THOROUGH EXAMINATION REFS

COSHH ASSESSMENT REFS

6 PPE — THE LAST LINE OF CONTROL, NOT THE FIRST

- Head protection
- Gloves — task-rated
- Arc-rated PPE where assessed
- Safety footwear
- Eye protection
- High visibility
- Hearing protection

RPE TYPE, FACE-FIT STATUS, AND ANY OTHER PPE REQUIRED

7 PERMITS REQUIRED BEFORE THIS WORK STARTS

A permit authorises this work in that place, on that day. It extends the safe system of work in this document — it does not replace it (HSE HSG250). The site issues the permit; record its number before work starts.

KD-PTW-EN-027 — Permit to Energise

Before any part of the installation is energised for the first time.

PERMIT NUMBER

KD-PTW-EL-010 — Electrical Permit to Work

For all work on the installation once it is energised.

PERMIT NUMBER

KD-PTW-EI-011 — Electrical Isolation Certificate

For any part isolated again after energisation.

PERMIT NUMBER

8 EMERGENCY ARRANGEMENTS — COMPLETE FOR THIS SITE

FIRST AIDER AND LOCATION

NEAREST A&E

ASSEMBLY POINT

HOW THE ALARM IS RAISED

EMERGENCY ACCESS FOR THIS WORK AREA

SPILL / ENVIRONMENTAL RESPONSE

9 BRIEFING RECORD — EVERYONE WORKING UNDER THIS RAMS SIGNS BEFORE STARTING

By signing you confirm the contents of this RAMS have been explained to you, you understand the hazards and controls, and you will work to the sequence stated. Tell the supervisor if the work or the site does not match this document — work stops until it does.

NAME	COMPANY	SIGNATURE	DATE

10 PREPARED AND ACCEPTED

Prepared / adapted for this site by — I confirm I have adapted this document to the site, scored the risks, and that it describes how the work will actually be done.

PRINTED NAME

ROLE / COMPETENCE

COMPANY

SIGNATURE

DATE

TIME

Accepted for the site by — principal contractor or site manager review.

PRINTED NAME

ROLE

COMPANY

SIGNATURE

DATE

TIME

Review this RAMS if the work, the site or the law changes, and at least before each new phase of the works. Flatten the completed PDF before filing so the record cannot be silently edited.

R REVISION HISTORY

Every revision of this document, and every review that found nothing to change. The revision on the front of this sheet is the one you are holding — check kubitdocs.com for the current one before use.

Rev	Date	Class	What changed	Authorised by
D0	2026-09-11	first-issue	First issue.	— not yet approved —
A0	2026-09-11	review	Approved for issue by the author. Content unchanged from the reviewed draft; the draft status strip is removed. No independent third-party review has been carried out.	Author — director, UK principal contractor, SMSTS. Not an independent review.

Class: first-issue · material (the law, a control, a field or the scope changed — past buyers are notified) · editorial (wording or layout only) · review (checked, nothing changed) · withdrawal. Revision prefix D = draft, not approved and not for sale; A = approved for issue by the person named, on the date shown.