



OUTPUT 04 — PPE, PLANT & EQUIPMENT SCHEDULE

● FOR APPROVAL

BAI-PPE-BPN-SUB-001 · REV 01

PPE, Plant & Equipment

Task-specific PPE matrix, plant schedule with inspection currency, equipment list with calibration status, and operator competency matrix. **No item enters site without proof of current inspection or calibration.**

CLIENT	SITE	WORK TYPE	OUTAGE WINDOW
Brunswick Power Networks · DNO	Lambeth Grid 33 / 11 kV substation · SE11 5BJ	HV M&E Transformer planned maintenance	Sun 17 May 03:00 – 11:00 · Authorised outage

AI-ASSISTED This schedule was generated from the Output 02 Task Sequence and Output 03 Hazard-Risk-Control Matrix using Built AI's PPE and plant knowledge base. Inspection and calibration dates have been verified by a competent person against current certification records. **Plant marked DUE or OVERDUE must be re-certified before mobilisation.**

12 TASKS SCHEDULED	6 PLANT ITEMS REQUIRED	12 EQUIPMENT ITEMS LISTED	1 ITEM DUE — ACTION REQUIRED
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PPE matrix — task by PPE type

REQ · ADD · OPT

REQ — required PPE for the task · **ADD** — additional PPE if conditions trigger it
· **OPT** — not required for this specific task

TASK	HARD HAT EN 397 Class E	SAFETY BOOTS EN 20345 S3 SRC	EYE PROTECTION EN 166	HEARING SNR ≥ 25 dB	HI- VIS EN 20471 Class 2	ARC- RATED EN IEC 61482- 2 Cat 2	HV GLOVES EN 60903 Class 2	INSULATING OVERSHOES EN 50321	RPE FFP3 / cartridge	VOLTAGE DETECTOR Calibrated, in-date
T01 · Site arrival & induction	●	●	·	·	·	·	·	·	·	·

Arrival, induction, PPE issue and check.										
T02 · LV safe isolation Lock-off / tag-off of LV supplies, prove dead.	●	●	●	●	*	●	*	*	*	●
T03 · HV switching operations Authorised switching to isolate transformer 11 kV side.	●	●	●	●	●	●	●	●	*	●
T04 · Earth application Application of portable earths to confirm dead status.	●	●	●	●	●	●	●	●	*	●
T05 · Transformer inspection Visual inspection, gauge reading, oil sampling.	●	●	●	*	*	●	*	*	●	*
T06 · Buchholz relay testing Functional check of Buchholz relay, oil temp gauges.	●	●	●	*	*	●	*	*	*	*
T07 · Bushings clean & inspect Clean HV bushings, inspect for tracking, ceramic damage.	●	●	●	*	●	●	*	*	*	*
T08 · Cable termination check Termination torque check, thermography review.	●	●	●	●	*	●	*	*	*	●
T09 · Earth removal Removal of portable earths in reverse sequence.	●	●	●	●	●	●	●	●	*	●
T10 · Re-energisation Authorised switching to re-energise, post-energisation checks.	●	●	●	●	●	●	●	●	*	●
T11 · Oil sample dispatch Sealing samples, packaging, courier dispatch to lab.	●	●	*	*	*	*	*	*	*	*
T12 · Final reporting Report write-up, fault list, sign-off.	●	*	*	*	*	*	*	*	*	*

Plant schedule — major plant with inspection currency

6 ITEMS

HV PLANT

Mobile elevated work platform (MEWP)

HV - PT - 01

Scissor lift · 8m platform height

Category	Boom-type · IPAF 3a
Working load	230 kg max + tools
Operator	IPAF 3a card holder · in-date
Pre-use inspection	Daily — supervisor signed
LOLER thorough exam	Within 6 months · current
Inspection status	● CURRENT

HV PLANT

Earth application / removal trolley

HV - PT - 02

Portable earth application rated 25 kA / 1 s · 11 kV system

Category	HV portable earth — 11 kV class
Capacity	25 kA short-time withstand · 1 second
Operator	Senior Authorised Person (HV) only
Pre-use inspection	Visual and continuity test before each use
Periodic test	Annual electrical test · current
Inspection status	● CURRENT

HV PLANT

Hot-stick / live-line tools

HV - PT - 03

1.2 m insulated rod for switch and earth operation

Category	HV insulated tool · 11 kV class
Storage	Dry tube · climate-controlled van
Operator	SAP-HV only
Pre-use inspection	Wipe-down, visual, dry test before each use
Periodic test	6-monthly dielectric test · within window
Inspection status	● DUE WITHIN 30 DAYS

HV PLANT

Insulating mat / matting

HV - PT - 04

Switch room access matting — 11 kV class

Category	Insulating mat · IEC 61111 Class 2
Coverage	Full footprint of switching position
Operator	Set up by SAP before any HV ops
Pre-use inspection	Visual for tears, contamination
Periodic test	Annual dielectric test · current
Inspection status	CURRENT

HV PLANT

Oil sampling kit

HV - PT - 05

Sealed glass vials, sampling syringes, dispatch packaging

Category	Sampling consumable + tooling
Capacity	6 × 250 ml samples per visit
Operator	HV technician — competent
Storage	Sealed kit in vehicle · ambient OK
Periodic test	Lab calibration of sampling rig — annual
Inspection status	CURRENT

HV PLANT

Thermal imaging camera

HV - PT - 06

FLIR T540 — for termination scan and post-energisation check

Category	Calibrated infrared camera
Range	-20°C to +1500°C
Operator	Level 1 thermography minimum
Pre-use inspection	Battery, lens, cal-cert verified before use
Periodic test	Manufacturer calibration · 12-monthly
Inspection status	CURRENT

Equipment list — smaller items, instruments and consumables

12 ITEMS · ALL CURRENT

ITEM	SPECIFICATION	INSPECTION / CALIBRATION	STATUS
Voltage detector — HV Capacitive proving unit — 11 kV class	SAP-HV	Calibrated annually	Cal-cert · in-date · 14·11·2026
Voltage detector — LV Two-pole tester for LV proving	Authorised Person (LV)	Calibrated annually	Cal-cert · in-date · 22·08·2026
Lock-off & tag kit Multi-padlock hasp + numbered tags	All authorised persons	Visual inspection per use	Visual — current
Torque wrench Cable termination torque verification	Senior technician	Annual calibration	Cal-cert · 03·02·2027
Multi-meter HV-rated digital multimeter — Cat IV 1000 V	Authorised technician	Calibrated annually	Cal-cert · 09·06·2026
Insulation tester 5 kV digital insulation resistance tester	HV technician	Calibrated annually	Cal-cert · 18·09·2026
First aid kit Substation-spec kit including burns dressing	Site supervisor	Inventoried monthly	Last check · 14·04·2026
Fire extinguishers CO2 (electrical fire) and dry powder	Site supervisor	Annual service	Last service · 03·01·2026
Emergency eye-wash 500 ml saline solution	Site supervisor	Inventoried monthly · expiry checked	Expiry · 11·2026
Vehicle defibrillator AED kept in supervisor vehicle	Site supervisor	Battery + pads checked monthly	Last check · 14·04·2026
Portable lighting 100 W LED floodlight on tripod	Any operative	Pre-use functional check	Working order
Spill kit Oil-spec absorbent pads, drain bungs, bunding	Site supervisor	Inventory after each use	Restocked · 02·05·2026

Operator competency — who is qualified to do what

7 ROLES

For HV substation works the competency stack is non-negotiable. No operative steps onto the work area without their authorisation in date and logged against this schedule.

ROLE	REQUIRED COMPETENCY / TRAINING	SCOPE OF AUTHORITY	MIN. ON SITE
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Senior Authorised Person (HV) CRITICAL	BPN HV authorisation in date · ENA TS 41-1 trained · annual refresh	All HV switching, earth application, isolation	2 minimum
Authorised Person (LV) CRITICAL	BPN LV authorisation · BS 7671 18th Edition	LV isolations, supplies, controls	1 minimum
HV Technician REQUIRED	C&G 2391-52 / 18th Edition · 5+ years HV experience	Inspection, sampling, termination check	2 minimum
Site Supervisor REQUIRED	SMSTS · Competent Person register · BPN-approved	Daily control of works, permits, briefings	1 minimum
IPAF 3a Operator REQUIRED	IPAF 3a in date	MEWP operation	1 minimum (could be HV technician)
First Aider REQUIRED	FAW 3-day · in date	First aid response	1 minimum
Thermographer REQUIRED	Level 1 thermography minimum	Termination thermal scan	1 minimum

PRE-MOBILISATION ACTION

HV-PT-03 (Hot-stick / live-line tools) is due for its 6-monthly dielectric test within the next 30 days. The test must be completed and certificate filed before the planned outage on Sun 17 May, or a substitute set must be sourced. **This is a hard mobilisation gate — no mobilisation without test certificate.**

SCHEDULE PREPARED BY — BUILT AI

Author confirmation

I confirm this schedule has been prepared from the approved task sequence, hazard-control matrix and current plant / equipment certification records. Inspection and calibration dates verified at preparation. The schedule supports the wider RAMS pack for issue.

AUTHOR + ROLE

SIGNATURE + DATE

APPROVER — SENIOR AUTHORISED PERSON (HV)

Approval for issue

As Senior Authorised Person for HV operations on this site, I confirm the PPE matrix, plant schedule, equipment list and competency matrix are appropriate for the planned scope of works. Approved for issue subject to closure of the pre-mobilisation action above.

SAP-HV NAME + AUTHORISATION NO.

ABOUT THIS DOCUMENT

RAMS Factory™ Output 04 — PPE, Plant & Equipment Schedule. Prepared by Built AI for HV transformer planned maintenance at Lambeth Grid Substation. This is a demonstration document. All client and site details are fictionalised. Final issue subject to competent-person approval and closure of pre-mobilisation actions.

OUTPUT 04 OF 11

- 01 Job Intake Form
- 02 Task Sequence Builder
- 03 Hazard-Risk-Control Matrix
- 04 PPE, Plant & Equipment
- 05–10 Supporting outputs
- 11 RAMS QA Checklist

DOCUMENT CONTROL

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