1 SCOPE

This document lists Site Specific Instruments and Legacy Miscellaneous Tools for use by SPEN staff on the SP Distribution plc, SP Transmission plc and SP Manweb plc networks.

2 ISSUE RECORD

This is a Reference document. The current version is held on the EN Document Library.

It is your responsibility to ensure you work to the current version.

Issue Date	Issue No.	Author	Amendment Details
Dec 2017	30	Ewan Gilliland	**Added to Section 7.3.1** Fameca Vector Voltage Indicator (TSE-06-075) **Added to Section 7.3.2** C Scope DXL2 CAT & SGV2 Genny (TSE-06-069) C Scope DXL4-DBG CAT & SGV4 Genny (TSE-06-069) **Added to Section 7.3.7** Fameca Penta-Pole Operating Rods (TSE-06-071) EATL CS2 Cable Sniffer (TSE-06-076) **Added to new Section 7.3.10** Dehn & Sohnne DC Capacitor Voltage Detector (TSE-06-072) Dehn & Sohnne Grounding Device (TSE-06-074) HVR International Discharge Device (TSE-06-073) Dehn & Sohnne Insulating Rod (TSE-06-073)
Jun 2020	31	Ruairidh Chalmers	Removal of all general tools captured by TSE-06-101. Removal of all test instruments captured by TSE-06-201. Title updated to reflect the above.
Nov 2025	32	Jamie McDonald	**Added new Section 8.7, Phoenix Project** Incorporating multiple new Approvals **Added to new Section 8.8, Miscellaneous** GridKey MCU520 Substation Monitor (TSE-06-050)

3 ISSUE AUTHORITY

Author	Owner	Issue Authority
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4 REVIEW

This is a Reference document which has a 5-year retention period after which a reminder will be issued to review and extend retention or archive.

5 DISTRIBUTION

This document is part of the SPD, SPM & SPT System Design Virtual Manuals maintained by Document Control but does not have a maintained distribution list. This document is also published to the SP Energy Networks website.

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7 APPROVED REGISTERS AND APPROVALS BACKGROUND INFORMATION

7.1 Site Specific Instruments and Legacy Miscellaneous Tools

The creation of TSE-06-101 and TSE-06-201 has resulted in General Tools and Test Instruments being removed from this Approved Equipment Register, with the title of this document updated to reflect the remaining items in Section 8.

7.2 General Tools

TSE-06-101 is the Approved Equipment Register for General Tools, which includes insulated tools. The procedure for Control and Management of Approved Equipment for use on SPEN networks is detailed in ScottishPower Safety Instruction SI-10.

7.3 Test Instruments

TSE-06-201 is the Approved Equipment Register for Test Instruments. Test equipment should be used and inspected according to the Health and Safety Handbook. Test instruments should be calibrated as per SMS-04-024 Procedure for Inspection, Testing and Calibration of Field Equipment.

7.4 SP Energy Networks Equipment Approvals Procedure

ASSET-02-002 is the SP Energy Networks Approval Procedure for equipment connected to the Company network.

7.5 Approval Procedure for Test Instrumentation, Devices, General Tools and Power Tools

TSE-04-007 is the Approval Procedure for Test Instrumentation, Devices, General Tools and Power Tools.

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8 SITE SPECIFIC INSTRUMENTS AND LEGACY MISCELLANEOUS TOOLS

8.1 Generator Equipment

Manufacturer	Type	Comments	
Ten47	CST1PS2PS-T7	Generator cable splitter box. 600A, 2kV$_{ac.}$ One input; 2 outputs	(TSE-06-044)
Two part kit – Ten 47 and RS	part number 0114 part number 163110	Mobile Generator – Henley pole mounted 200Amp Adaptor Kit	(TSE-06-038)

8.2 Hunterston Site Specific Equipment

Manufacturer	Type	Comments	
Dehn & Sohnne	PHEG1 S P SN7740	HVDC Voltage Indicator – for Hunterston HVDC Converter station only	(TSE-06-072)
Dehn & Sohnne	IS M12 LK STK SN7242	HVDC Voltage Indicator – for Hunterston HVDC Converter station only	(TSE-06-072)
Dehn & Sohnne	EV TES 465 EK	HVDC Grounding Device – for Hunterston HVDC Converter station only	(TSE-06-074)
HVR International	CD2C10A 80R0K 814	HVDC Discharge Resistor – for Hunterston HVDC Converter station only	(TSE-06-073)
Dehn & Sohnne	EG TI EKV SN7131	HVDC Discharge Resistor Insulating Rod – for Hunterston HVDC Converter station only	(TSE-06-073)

8.3 Gas Torches

Purpose	Type	Comments	SP Code
Gas torch with 25mm burner head		For plumbing	30982283
Heatshrink nozzle		For above torch	30982287
Handle	FH 1630-HN2		Purchased direct from Smith Electrical/Raychem
Burner head	FH 1630-BN25		Purchased direct from Smith Electrical/Raychem
Gas hose/connections	FH 1630-S5		Purchased direct from Smith Electrical/Raychem

8.4 Manufacturer Specific

Purpose	Type	Comments	SP Code
Compression Tool (Pirelli)	G14	Suitable for 500-630 Crimps	Purchased direct from Pirelli
Pfisterer Tool kit		Size 2 & 3	Purchased direct from Pfisterer
Pfisterer Tool kit		Size 4	Purchased direct from Pfisterer

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8.5 Pilot/Telephone Cable Tools

Purpose	Type	Comments	SP Code
Compression Tool	Amp	For Hardex 7 pair	Purchased direct from Amp
Crimping Pliers	3M	Scotchlock	Purchased direct from 3M

8.6 Overhead Line Tools

8.6.1 Compression Tools

Manufacturer	Type	Comments	SP code
Pirelli	G10	Hydraulic hand tool.	Purchased direct from Pirelli.
Pirelli	G5	Hydraulic hand tool.	Purchased direct from Pirelli.
Pirelli		Battery operated tool.	Purchased direct from Pirelli.
Framatome	MD6	Hand tool.	Existing tools in good condition may be used but new tools may no longer be purchased.
Framatome	MD7	Hand tool (insulated).	Existing tools in good condition may be used but new tools may no longer be purchased.
Cembre	B54-D6	9.6V, 5.5 ton, stick shaped battery operated crimping tool. MD6 replacement tool. – 2.9kg (inc. battery), 120 crimps per charge.	New tools Approved for purchase.
	B55-KV	14.4V, 5.6 ton, insulated battery operated crimping tool. – 5.0kg (inc. battery), 150 crimps per charge.	New tools Approved for purchase.
	B135-C/KV	14.4V, 13.3 ton, insulated battery operated crimping tool. – 6.6kg (inc. battery), 45 crimps per charge.	New tools Approved for purchase.
	B131-C	14.4V, 13.3 ton, battery operated crimping tool. – 7.4kg (inc. battery), 55 crimps per charge.	New tools Approved for purchase but may be used for MEWP/ground operation only.
	HT-TC026Y	Hydraulic cutting tool for conductor, stay wire and stay rods.	New tools Approved for purchase.
Izumi	ECO-EZBG with BP-70MH battery	14.4V, 6.0 ton, stick shaped battery operated crimping tool. MD6 replacement tool. – 3.0kg (inc. battery), 75 crimps per charge.	New tools Approved for purchase.
	REC-5431 with BP-70MH battery	14.4V, 12.0 ton, insulated battery operated crimping tool. – 6.65kg (inc. battery), 60 crimps per charge.	New tools Approved for purchase.
Klauke	EK425UK	9.6V, 5.0 ton, stick shaped battery operated crimping tool. MD6 replacement tool. – 2.5kg (ex. battery), 65 crimps per charge.	New tools Approved for purchase. Care to be taken to ensure tool works properly.

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8.6.2 Lever Hoists

Manufacturer	Safe Working Load	Comments	SP code
Yale	All Sizes	Chain with captive gates at both ends	Purchased direct from distributors
Bravo	All Sizes	Chain with captive gates at both ends	Purchased direct from distributors
Elephant	All Sizes	Chain with captive gates at both ends	Purchased direct from distributors
GT	All Sizes	Chain with captive gates at both ends	Purchased direct from distributors
NGK	1.5 tons	Web with captive gates at both ends	Purchased direct from distributors

8.7 Phoenix Project

Manufacturer	Type	Comments
HD Electric Company	PT-5000B Voltmeter tester	Test device provided by ABB for proving operation DVM-80UVM Voltmeter prior to application onto IGBT valves on Phoenix. (TSE-06-082)
HD Electric Company	DVM-80UVM	New equipment provided by ABB for measuring voltage in the Valve Room on the Phoenix Hybrid Compensation equipment during safety procedure (TSE-06-079)
Pfisterer	Insulated Rod for Digital voltmeter Models: 363 810 810, 935 101 002	Insulated Rod provided by ABB for application of DVM-80UVM Voltmeter to STATCOM Valves and for Discharge Resistor in the event of excess voltage Across DC Capacitor in STATCOM Valve on Project Phoenix. For indoor use only. (TSE-06-080)
Ragnar Stalskog	Earth Application Poles and Portable Earths Models: JK27-JK27 11.5kA-1s-2.5 JK27-JLA35 21.0kA-1s-2.5 MGV-I 24 MGV-I 52 MSV 250 JFS21-JLA34 42.5kA-1s-2.5	The earths are provided by ABB specifically for the use within the IGBT Valve Room on the Phoenix Hybrid Static Compensator (TSE-06-081)
Backfallet Electronik AB	Discharge Equipment SVC Light V2	For the discharging IGBT Valve Modules in the event of a voltage being detected (TSE-06-083)

8.8 Miscellaneous

Manufacturer	Type	Comments
GridKey	MCU520	Substation Monitoring System for use in Flexible Networks project (TSE-06-050)

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