

## 1. SCOPE

This document details the Company's requirements for inspection and testing of new Low Voltage supplies at the time of first energisation. Whilst inspection and testing of all new supplies is undertaken to the same standard this document specifically relates to LV supplies constructed under Ofgem's Competition in Connections regime.

The document forms the Appendix to, and must be read in conjunction with, G81 part 3 - Framework for new low voltage housing development installations and/or G81 part 6 - Framework for new industrial and commercial underground connections.

This document only applies to new developments and is not to be applied retrospectively.

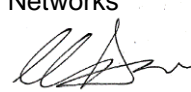
## 2. ISSUE RECORD

This is a **Controlled** 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
September 2014	1	Carl Woodman	Created to capture inspection and testing requirements to fill a void caused by archiving old documents (EPS-04-001 and EPS-01-006)
March 2020	2	Matthew Jones	Updated data capture procedure, reference to Radar connections platform. Removed redundant hyperlinks, updated formatting throughout.
April 2025	3	Alastair J. Oldfield	Updated document owners and issue authority. Removed reference to archived document CON-04-007.

## 3. ISSUE AUTHORITY

Author	Owner	Issue Authority
Alastair J. Oldfield Lead Engineer – Asset Management	Richard Harcombe SPM Distribution Network Manager  Neil McDonald SPD Distribution Network Manager	Iain Divers Head of Distribution Networks  Date: 12/06/2025

## 4. REVIEW

This is a **Controlled** document and shall be reviewed as dictated by business / legislative change but at a period of no greater than 5 years from the last issue date.

## 5. DISTRIBUTION

This document is not part of a Manual maintained by Document Control and does not have a maintained distribution list. This document is published to the SP Energy Networks Internet.

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**7. DEFINITIONS AND ABBREVIATIONS**

<b>Applicant</b>	The company wishing to undertake the contestable work.
<b>Approved</b>	Equipment approved in accordance with the Company's Equipment Approvals Procedure, and which is considered suitable for installation on the Company network.
<b>Company</b>	<b>SP Distribution and SP Manweb</b>
<b>Housing Estate</b>	A development consisting of domestic dwellings.
<b>RAAdAR</b>	Register of Adopted Asset Requests, the RAAdAR system manages the Competition in Connection activities.
<b>SP Distribution (SPD)</b>	The holder of the Distribution Licence for the network predominantly contained within southern Scotland.
<b>SP Energy Networks (SPEN)</b>	Part of the Scottish Power group of companies comprising those parts of the business responsible for the distribution and Transmission Networks within the SP Manweb, SP Distribution and SP Transmission areas.
<b>SP Manweb (SPM)</b>	The holder of the Distribution Licence for the network predominantly contained within Merseyside and North Wales.

## 8. RELATED DOCUMENTS

This document is one of a suite of specifications relating to this subject area and should be read in conjunction with the latest issues, versions or editions of the following documents:

### (a) Energy Networks Association Documents:

<b>Engineering Recommendation G81</b>	Framework for new low voltage housing development installations.	Part 1: Design and Planning Part 2: Materials Specification Part 3: Installation and Records
<b>Engineering Recommendation G81</b>	Framework for new industrial and commercial underground connections.	Part 4: Design and Planning Part 5: Materials Specification Part 6: Installation and Records

### (b) Company Internal Documents:

<b>ESDD-02-012</b>	Framework for Design & Planning of LV Housing Developments, including U/G networks and associated HV/LV S/S.
<b>EPS-03-027</b>	Materials Specification Framework for Low Voltage Housing Development Installations and Associated New HV/LV Distribution Substations
<b>EPS-03-031</b>	Materials Specification Framework of Industrial and Commercial Underground Connected Loads Up To and including 11kV
<b>ASSET-01-015</b>	New Connections Independent Connection Provider (ICP) Approval Policy

### (c) Other:

<b>ESQCR</b>	The Electricity Safety, Quality and Continuity Regulations 2002 (Statutory Instrument 2002 No 2665) and any subsequent additions/amendments
<b>BS7671</b>	Requirements for Electrical Installations. IET Wiring Regulations

## 9. GENERAL

The data and guidance contained within this document remains the property of the **Company** and may not be used for purposes other than that for which it has been supplied and may not be reproduced either wholly or in part, in any way whatsoever, nor may it be used by, or its contents divulged to, any other person whatsoever, without the prior written permission of the **Company**.

This document applies to new installations only and is not to be applied retrospectively.

The **Company** reserves the right to change the data contained within this document without notification. Although specific network extensions will have designs proposed by third parties. The **Company** retains the responsibility for the design of the distribution system and since the guidance cannot cover every eventuality, reserves the right to apply other criteria where necessary. The **Company** accepts no responsibility for any inaccuracies in, or omissions from the document.

The **Applicant** is responsible for ensuring they have all relevant information to undertake the work. Only **Applicants** possessing the appropriate skills, training, experience and accreditation as detailed in **ASSET-01-015**, shall use the data and guidance contained within this document.

The data and guidance contained within this document gives details on materials and does not embrace the physical design and construction of the distribution system or the associated safety, environmental and legal requirements.

Electrical testing shall only be carried out by suitably authorised, trained and qualified persons

Further **Company** documentation is accessible at:

[https://www.spenergynetworks.co.uk/pages/document\\_library.aspx](https://www.spenergynetworks.co.uk/pages/document_library.aspx)

## 10. INSPECTION AND TESTING

When new Equipment is to be connected to the system for the first time then prior to connection to the system, the Equipment shall be inspected and electrically tested in accordance with Appendix 1.

Records of all tests shall be retained for a minimum period of 5-years and shall be made available to the **Company** on request.

Records of inspection and testing shall be submitted using the form contained in Appendix 1 to the following address for **Housing Estates** in the SPD, or SPM licence areas respectively:

SP Energy Networks,  
SPD Network Connections,  
55 Fullarton Drive  
Cambuslang  
Glasgow  
G32 8FA

Or

SP Energy Networks  
SPM Network Connections  
PO Box 290  
Lister Drive  
Liverpool  
L13 7HJ

Alternatively, the **RAdAR** system provides an interface for ICPs to provide the required information to the **Company**.

For any further information please contact: [GettingConnected@scottishpower.com](mailto:GettingConnected@scottishpower.com)

## 11. APPENDIX 1

<b>11.1 Property Details</b>	
Housing Estate Development Address:	
Plot Number/Name	

<b>11.2 Inspection</b>	
Prior to energisation the cut-out and service position shall be visually inspected to ensure it is secure and will not present a source of danger to staff or the public. Steps shall be taken to make evident to anyone approaching the equipment that the service position is or will be 'live'.	
Service Position Secure	Yes / No
PME Label required	Yes / No
PME Label attached to Cut-Out lower chamber cover:	Yes / No

<b>11.3 Testing</b>			
Complete and record results of the below tests. <i>(Complete/Delete as appropriate)</i>			
Service Cable Continuity Checked:		Yes / No	
Insulation Resistance of Service Cable:		MΩ	(min acceptable 5 MΩ)
Phase Connected to (1ph services only):		R / Y / B	
Polarity Checked to be correct at Cut-Out:		Yes / No	
Polarity Checked to be correct at Meter:		Yes / No / Not Present	
Polarity Checked to be correct at Switch:		Yes / No / Not Present	
Correct polarity Labels fixed to Cut-Out:		L-N	L-N-E
		L-L-L-N	L-L-L-N-E
Correct polarity Labels fixed to Meter:		L-N	L-N-E
		L-L-L-N	L-L-L-N-E
		Not Present	
Correct polarity Labels fixed to Tails:		L-N	L-N-E
		L-L-L-N	L-L-L-N-E
		Not Present	
Voltage measured at Cut-Out Terminals:		V	(nominal 230V 1ph)
Earth Loop Impedance (PME):	L-E	Ω	(max acceptable 0.35 Ω)
Earth Loop Impedance (SNE):	L-E	Ω	(max acceptable 0.8 Ω)
	L-N	Ω	
<i>Note: On SNE supplies an additional impedance test shall be undertaken using the Earth Loop test instrument. This shall be undertaken between L and N to determine the supply source impedance and the result recorded above.</i>			
Three Phase Supplies: Phase Rotation Checked Correct:		Yes/No	

<b>Inspection &amp; Testing Completed by</b>	
Company name	
Name (Print)	
Signature	
Date	

