

**1. SCOPE**

This document details PowerSystems materials requirements for underground connected loads up to and including 11kV. The document specifically relates to industrial and commercial projects constructed under Ofgem’s competition in connections regime.

The document forms the appendix to, and must be read in conjunction with, G81 – part 5 the Energy Networks Association document titled: Framework for installation and records of industrial and commercial underground connected loads up to and including 11kV.

**2. ISSUE RECORD**

**This is a non controlled document**

**All copies printed via the Intranet or photocopied will be deemed uncontrolled.**

<b>Issue Date</b>	<b>Issue No</b>	<b>Author</b>	<b>Amendment Details</b>
November 04	1	Jonathan Giff	Initial Issue

**3. ISSUE AUTHORITY**

<b>Author</b>	<b>Owner</b>	<b>Issue Authority</b>
Jonathan Giff Engineer	Alastair Graham Engineering Risk Control Section Head	Andy Huthwaite Engineering and Transmission Operations Manager .....

**4. REVIEW**

This document shall be subject to periodic review as and when required.

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## **6. DEFINITIONS AND ABBREVIATIONS**

<b>Applicant</b>	The organisation (or their representative) responsible for the overall design and development of the housing site. Typically referred to as the Client or Principal contractor under the CDM regulations.
<b>Approved</b>	Equipment approved in accordance with PowerSystems' equipment Approvals Procedure, and which is considered suitable for installation on the company network.
<b>Company</b>	Refers to both SP Distribution Limited and SP Manweb plc including all associated design and planning practices.
<b>PowerSystems</b>	SP PowerSystems Ltd, operator of network on behalf of the company.
<b>SP Distribution ltd</b>	The distribution Licence Holder for the Distribution service area formally known as ScottishPower.
<b>SP Manweb plc</b>	The Distribution Licence Holder for the Distribution service area formally known as Manweb.

## **7. RELATED DOCUMENTS**

This document is one of a suite of specifications relating to this subject area and should be read in conjunction with:

(a) **Energy Networks Association Documents:**

Engineering Recommendation G81 – Framework for Design and Planning, Materials Specification and Installation and Record of industrial and Commercial Underground Connected Loads Up To and Including 11kV.

- Part 4: Design and Planning
- Part 5: Materials Specification
- Part 6: Installation and Records

(b) **The Company Internal Documents:**

- Design and Planning Framework of Industrial and Commercial Underground Connected Loads Up To and including 11kV (Ref. ESDD-02-013)
- Installation and Record Framework of Industrial and Commercial Underground Connected Loads Up To and including 11kV (Ref. EPS-02-006)
- PowerSystems New Connections Contractor Approval Policy (Ref. ASSET-01-015)

All materials shall comply with both the requirements described within this document and those detailed in (a) and (b) above.

## **8. GENERAL**

The data and guidance contained within this document remains the property of PowerSystems 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 PowerSystems.

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

PowerSystems reserves the right to change the data contained within this document without notification. Although specific network extensions will have designs proposed by third



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parties, PowerSystems retains the responsibility for the design of the distribution system and since the guidance cannot cover every eventuality reserve the right to apply other criteria where necessary. PowerSystems 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.

## **9. APPROVED EQUIPMENT**

All equipment offered by the applicant shall have successfully passed the type-approval tests specified in the relevant standard (EATS, BS, IEC) specified in the PowerSystems, Approved Equipment Register. If the Applicant wishes to incorporate any change which may in any way modify or affect the performance of the equipment, such changes must be notified in writing and arrangements made for repeat type-approval testing. The costs of such testing shall be borne by the Applicant. Certified evidence that the equipment offered for adoption is in accordance with the specification shall be submitted.

Only Approved Equipment and Materials detailed in the PowerSystems, Approved Equipment Register shall be used. Only new Equipment and Materials shall be installed unless prior agreement is obtained in writing from the PowerSystems, Engineering and Transmission Operations Manager.



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<b>Item</b>	<b>Document Title</b>	<b>Reference</b>
Cables	Approved Equipment Register – Underground Cable Systems	CAB-06-001
Switchgear	Approved Equipment Register – Switchgear	SWG-06-001
Batteries	Approved Equipment Register – Batteries	BATT-06-001
Meter Security Bridges, Meter Boards, Meter Cabinets, Network Pillars	Approved Equipment Register – Ancillary Meter Termination Equipment	EPS-06-002
Earthing Equipment	Approved Equipment Register – Earthing	EART-06-001
Transformers	Approved Equipment Register – Transformers	TRAN-06-001
Substation Enclosures	Approved Equipment Register – Substations	SUB-06-001

Copies of documents can be obtained by request in writing from the Documentation section at:

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