

**1. SCOPE**

This document indexes the Company specifications that are relevant to the application of Substation control systems to the Company Distribution and Transmission networks.

**2. ISSUE RECORD**

This is a controlled maintained 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>
Feb 05	Issue 1	A Convery	Initial Issue

**3. ISSUE AUTHORITY**

<b>Author</b>	<b>Owner</b>	<b>Issue Authority</b>
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**4. REVIEW**

This document will be subject to review as and when required.

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**5. CONTENTS**

<b>1. SCOPE .....</b>	<b>1</b>
<b>2. ISSUE RECORD.....</b>	<b>1</b>
<b>3. ISSUE AUTHORITY .....</b>	<b>1</b>
<b>4. REVIEW .....</b>	<b>1</b>
<b>5. CONTENTS.....</b>	<b>2</b>
<b>6. INTRODUCTION.....</b>	<b>3</b>
<b>7. DEFINITIONS .....</b>	<b>3</b>
<b>8. EQUIVALENT SPECIFICATION INDEX .....</b>	<b>4</b>
8.1 LEVEL TWO DOCUMENTS .....	4
8.2 LEVEL THREE DOCUMENTS.....	4

## **6. INTRODUCTION**

This document is a second level specification in a three-tier structure, dealing with the control system requirements of the Company 33,132,275 and 400kV networks. Each successive level in the structure provides greater detail in a specific discipline and, collectively, these documents define the Company technical requirements for plant, equipment and apparatus for use on, and for direct connection to, its electricity transmission/distribution system.

These documents translate the actual operating characteristics of the Company electricity transmission system into standardised values that assure safe & reliable operation. As far as possible, ratings and requirements are selected from values given in the appropriate IEC standards. Deviations from these standards relate to particular requirements of company network configurations or operational & safety procedures.

In order to facilitate the three-tier structure outlined above whilst at the same time utilising existing documents, the relevant Company documents are listed below alongside their NGTS equivalents. Where appropriate, any relevant ENA document is also listed. Where no Company document yet exists, reference is made to the appropriate NGTS.

## **7. DEFINITIONS**

For the purposes of the SPTS suite of documents, the terms used are as defined in IEC 60050 (International Electrotechnical Vocabulary), and as below:

### **Company**

Refers to SP Transmission Ltd, SP Distribution Ltd, and SP Manweb plc including all associated design and planning practices.

### **PowerSystems**

SP PowerSystems Ltd, operator of network on behalf of the company.

### **SP Transmission**

The distribution Licence Holder for the Transmission service area formally known as ScottishPower.

### **SPTS**

Scottish Power Technical Specification.

### **SPPS**

SP PowerSystems

**NGTS**

National Grid Technical Specification

**8. EQUIVALENT SPECIFICATION INDEX**

**8.1 Level Two Documents**

Table 1 below gives the direct equivalent SPPS document to NGTS 2.7: Specification for Substation Control Systems. Note that the appropriate SPPS document is voltage-dependant.

<b>Subject</b>	<b>NGTS Document</b>	<b>Equivalent SPPS Document to be used</b>	<b>ENA Document</b>
Substation Control Systems	NGTS 2.7	PROT-03-012 (132, 275, 400kV) PROT-01-006 (33kV)	ENATS 48-5

Table 1: Level Two Equivalents

**8.2 Level Three Documents**

Table 2 below gives the SPPS equivalents to the relevant NGC Level Three documents including the NGTS 3.7.X suite as well as others.

<b>Subject</b>	<b>NGTS Documents</b>	<b>Equivalent SPPS Documents to be Used</b>	<b>ENA Documents</b>
Synchronising and Voltage Selection	NGTS 3.7.7	TPS 6/10/003	-

Table 2 – Equivalent Level 3 Documents