

CC.6.2.1.2 Substation Plant and Apparatus is relevant part of grid code which requires RES.

The Relevant Electrical Standards Document (RES) Mapping

	NG				SPT			SHE-T			
1	Back-Up Protection Grading across NGET's and other Network Operator Interfaces	PS(T)044(RES)	2.0	22nd Jan 2015	Ratings and General Requirements for Plant, Equipment and Apparatus for The ScottishPower System and Connection Points to it.	SPTS 1	Issue 1 Feb 05				
2	Ratings and General Requirements for Plant, Equipment, Apparatus and Services for the National Grid System and Connections Points to it.	TS 1 (RES)	1.0 Draft	9th Jan 2006	Transformers and Reactors	SPTTS 2.3	Issue 1 Mar 05	Rating and General Requirements for Plant, Equipment, Apparatus and Services for the National Grid System and Direct Connection to it.	NGTS 1:	Issue 3 March 1999.	Currently under review by Panel. Pending sign off (Nov Panel?).
3	Substations	TS 2.01 (RES)	1.0 Draft	9th Jan 2006	Substation Control Systems	SPTTS 2.7	Issue 1 Feb 05	Substations	NGTS 2.1	Issue 2 May 1995	
4	Switchgear	TS 2.02 (RES)	2.0	22nd Jan 2015	Switchgear	SPTTS 2.2	Issue 1 Mar 05				
5	Substation Auxiliary Supplies	TS 2.12 (RES)	2.0	22nd Jan 2015							
6	Ancillary Light Current Equipment	TS 2.19 (RES)	2.0	22nd Jan 2015							
7	Substation Interlocking Schemes	TS 3.01.01 (RES)	1.0 Draft	9th Jan 2006				Substation Interlocking Schemes.	NGTS 3.1.1	Issue 1 October 1993.	
8	Earthing Requirements	TS 3.01.02 (RES)	2.0	22nd Jan 2015							
9	Circuit Breakers	TS 3.02.01 (RES)	2.0	22nd Jan 2015				Circuit Breakers and Switches.	NGTS 3.2.1:	Issue 1 September 1992.	Currently under review by Panel. Comments by 16/11/17.
10	Disconnectors and Earthing Switches	TS 3.02.02 (RES)	2.0	22nd Jan 2015				Disconnectors and Earthing Switches.	NGTS 3.2.2	Issue 1	
11	Current Transformers for Protection and General Use on the 132kV, 275kV and 400kV Systems	TS 3.02.04 (RES)	2.0	22nd Jan 2015				Current Transformers for protection and General use on the 132, 275 and 400kV systems.	NGTS 3.2.4:	Issue 1 September 1992.	
12	Voltage Transformers	TS 3.02.05 (RES)	1.0 Draft	9th Jan 2006				Voltage Transformers for use on the 132, 275 and 400 kV systems.	NGTS 3.2.5:	Issue 2 March 1994.	
13	Bushings	TS 3.02.07 (RES)	2.0	22nd Jan 2015				Bushings for the Grid Systems	NGTS 3.2.7:	Issue 1 September 1992.	
14	Solid Core Post Insulators for	TS 3.02.09 (RES)	2.0	22nd Jan				Metal-Oxide surge arresters for use on	NGTS 3.2.3	Issue 2 May	

	Substations			2015				132, 275 and 400kV systems. Post Insulators for Substations.	NGTS 3.2.9	1994. Issue 1 May 1996.	
15	Voltage Dividers	TS 3.02.12 (RES)	1.0 Draft	9th Jan 2006							
16	Gas Insulated Switchgear	TS 3.02.14 (RES)	2.0	22nd Jan 2015							
17	Environmental and Test Requirements for Electronic Equipment	TS 3.24.15 (RES)	2.0	22nd Jan 2015							
18	Busbar Protection	TS 3.24.34 (RES)	2.0	22nd Jan 2015	Protection	SPTTS 2.6	Issue 1 Feb 05	Protection	NGTS 2.6:	Issue 2 June 1994.	
19	Circuit Breaker Fail Protection	TS 3.24.39 (RES)	2.0	22nd Jan 2015	Protection	SPTTS 2.6	Issue 1 Feb 05	Protection	NGTS 2.6:	Issue 2 June 1994.	
20	System Monitor – Dynamic System Monitoring (DSM)	TS 3.24.70 (RES)	2.0	22nd Jan 2015							GC0102
21	Protection & Control for HVDC Systems	TS 3.24.90 (RES)	2.0	22nd Jan 2015							GC0102
22	Ancillary Services Business Monitoring	TS 3.24.95 (RES)	2.0	22 nd Jan 2015							GC0102
23	Guidance for Conductor Jointing	TGN(E)187 (RES)	2.0	22nd Jan 2015							
	?				Cables	SPTTS 2.5	Issue 1 Feb 05	Current and Voltage Measurement Transformers for Settlement Metering of 33, 66, 132, 275 and 400kV systems.	NGTS 3.2.6	Issue 1 September 1992	
	?							Capacitors and Capacitor Banks.	NGTS 3.11.1:	Issued 1 March 1993.	
	Back-Up Protection Grading Across National Grid / Distribution Network Operator Interfaces And Other Third Parties	PS(T)010 (RES)									Currently under review by Panel. Comments by 08/11/17.
	System Management Requirements	TS 3.24.60 (RES)									GC0102
	Fault Recording and Monitoring (Art 53 HVDC)	TS 3.24.69 (RES)									GC0102

	EDT / EDL	
1	EDT Interface Specification	Issue 4
2	EDT Submitter Guidance Note	Dec-01
3	EDL Message Interface Specifications	Issue 4
4	EDL Interface Specification Guidance	Oct-01
5	EDL Instruction Interface Valid Reason Codes	Issue 2