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RESISTORS

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PURPOSE AND SCOPE

This document is provided as a generic SCT for Resistors used as part of Mechanically Switched Capacitors (MSC) or Static Var Compensators (SVC). The SCT is not manufacturer or type specific and so reference should be made to the relevant commissioning section of the equipment's manual for particular instruction.

PART 1 – PROCEDURAL

1 RESPONSIBILITY

Those undertaking the commissioning of this equipment in accordance with the recognised commissioning procedure have responsibility for completing the commissioning of the equipment in accordance with this SCT.

2 FORMS AND RECORDS

SCT 50.A	Schedule of Site Commissioning Tests
SCT 50.B	Commissioning Stage 1
SCT 50.C	Commissioning Stage 2

PART 2 - DEFINITIONS AND DOCUMENT HISTORY

3 DEFINITIONS

<i>Resistor Element:</i>	The active part of the resistor, manufactured from a resistive material whose purpose is to dissipate electrical energy as heat. A number of resistor elements will usually be connected in series or series/parallel in order to produce the desired resistance.
<i>Element Assembly:</i>	An <i>Element Assembly</i> comprises a mechanical framework providing support for and electrical insulation between a number of <i>Resistor Elements</i> connected in series or series/parallel.

- Resistor Unit:** A weather-proof enclosure providing mechanical support for one or more *Element Assemblies*. The *Resistor Unit* will also normally provide electrical insulation between adjacent *Element Assemblies* and between *Element Assemblies* and the enclosure. The *Resistor Unit* will include internal connections between *Element Assemblies*, between *Element Assemblies* and the enclosure (equi-potential bonds) and between *Element Assemblies* and the incoming/outgoing bushings.
- Resistor Bank:** An assembly of one or more *Resistor Units* forming a complete single phase resistor. The *Resistor Bank* includes all interconnections between *Resistor Units* and all support insulators between *Resistor Units* and between *Resistor Units* and ground. For low power/low voltage applications, all three phases of a resistor may be housed in a single *Resistor Unit*. Furthermore, for certain applications, resistors of different types (e.g. discharge and damping) may also be housed in the same *Resistor Unit*.

4 AMENDMENTS RECORD

Issue	Date	Summary of Changes / Reasons	Author(s)	Approved By (Inc. Job Title)
1	December 2005	New document	David Monkhouse	Zac Richardson Asset Engineering Manager