

This document is for internal and contract specific use only.

Disclaimer

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements."

Copyright © National Grid plc 2011, all rights reserved

All copyright and other intellectual property rights arising in any information contained within this document are, unless otherwise stated, owned by National Grid plc or other companies in the National Grid group of companies. No part of this publication may be reproduced in any material form (including photocopying and restoring in any medium or electronic means and whether or not transiently or incidentally) without the written permission of National Grid plc

This information should not be forwarded to third parties.

DESIGN & OPERATION OF COMBINED DISCONNECTOR-EARTHING SWITCHES

PURPOSE AND SCOPE

This policy defines the requirements for disconnectors and earth switches which, due to features of their design, cannot be operated as independent devices. In particular it addresses the potential incompatibility of these device combinations with the National Grid Transco (NGT) Safety Rules requirement to lock “*points of isolation*” prior to operation of any associated earth switch. Whilst this policy has been prompted by recent designs of 145kV GIS equipment the requirements contained herein are applicable across all voltage ranges & technologies. The policy applies to applications which form part of, or affect the integrity of, the NGT (Electricity) system.

PART 1 – POLICY

1 GENERAL

Disconnectors forming part of a combined disconnector-earth switch assembly must be lockable (see definitions) in the “disconnector open” position prior to operation of the associated earth switch.

The action of locking the disconnector shall not preclude subsequent operation of the associated earth switch.

The earth switch shall be separately lockable in the “earthed” position.

2 FORMS AND RECORDS

Not applicable.

PART 2 – DEFINITIONS AND DOCUMENT HISTORY

3 DEFINITIONS

3.1 Locked

For the purposes of this document the state “locked” requires one of the following conditions to be met:

Either

- a) Drive chain physically immobilised eg by the insertion of a secured mechanical stop.

Or, where the design of the equipment precludes mechanical interference, and providing that the contact system cannot move other than by operation of the drive chain.

- b) All mechanical and electrical operating facilities secured against access for operation.