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National Grid
Commissioning
Handbook
Procedure

Model Format for a Commissioning Programme

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Authorised for Issue by: K. Harker

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Introduction

This procedure describes a commissioning programme model format. It is expected that such a commissioning programme will form part of a contractor's quality plan. All commissioning must be carried out to a commissioning programme to this standard.

It should be noted that the commissioning plan is only an illustration and is not a complete plan.

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Commissioning Programme Model Format

AVADocuments.com

CONTENTS

1. Diagram of connections
2. Commissioning plan
3. Commissioning schedule

3.1 Stage 1 Tests

(NB: Stage 2 tests associated with the equipment and schemes listed below will be carried out as part of the Commissioning Switching Programme for Energisation and on-load tests)

- 1.1 Circuit Breakers
- 1.2 Disconnectors
- 1.3 Earth Switches
- 1.4 Transformer
- 1.5 Earthing
- 1.6 HV Connections
- 1.7 Voltage Transformers
- 1.8 Current Transformers Flick Tests
- 1.9 Current Transformers Magnetisation Current
- 1.10 Insulation Resistance Tests
- 1.11 Lead Resistances
- 1.12 Primary Injections
- 1.13 Protection & Control Secondary Injection
- 1.14 DC Logic Tests
- 1.15 Communication Circuits Tests
- 1.16 Simulated DAR tests
- 1.17 48 volt Battery
- 1.18 110 volt Battery
- 1.19 Confirm all AC schematics proven
- 1.20 Confirm all DC schematics proven

3.2. Stage 2 Tests

- 2.1 Commissioning Method Statement for Busbar Protection
- 2.2 Commissioning Method Statement for Circuit Breaker Fail
- 2.3 Commissioning Method Statement for Interlocking
- 2.4 Commissioning Method Statement for Synchronising
- 2.5 Commissioning Method Statement for SCS Equipment
- 2.6 Commissioning Switching Programme for Energisation and On-load Tests

3.3 Inspections

- | | | |
|----|---|---------------------------------|
| I1 | : | Pre - Commissioning Inspection |
| I2 | : | Pre - Energisation Inspection |
| I3 | : | Post - Commissioning Inspection |