

NIA Progress Report

NIA_ENWL012 Investigation of Switchgear Ratings

22 July 2016



VERSION HISTORY

Version	Date	Author	Status	Comments
v.1.0	20/07/16	M Kayes Project Manager	Final	Final version following internal review and comment

REVIEW

Name	Role	Date
A Howard	Programme Manager	21/07/2016
D Randles	Network Performance and Innovation Manager	21/07/2016
P Turner	Future Networks Delivery Manager	21/07/2016

APPROVAL

Name	Role	Date
Steve Cox	Head of Network Engineering	22/07/2016

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1 PROJECT BASICS

Project Title	Investigation of Switchgear Ratings
Project Reference	NIA_ENWL012
Funding Licensee(s)	Electricity North West Limited
Project Start Date	December 2015
Project Duration	12 months
Nominated Project Contact(s)	Matthew Kayes (mattew.kayes@enwl.co.uk

2 SCOPE

This project will conduct a series of investigative fault withstand tests to enable the assignment of new short circuit ratings which can be applied to devices based on the network location and protection operating time.

3 OBJECTIVES

The project has the following objectives:

- Carry out a series of investigative short circuit tests at an independent test station on a range of commonly used distribution switchgear and publish revised fault level ratings where appropriate
- Calculate the actual fault level at distribution substations and the level of typical attenuation
- Assess the available fault level headroom
- Publish a report outlining the details of the investigations and the potential for application of revised ratings.

4 SUCCESS CRITERIA

The project success criteria are:

- Completion of the short circuit tests and reports
- Table of actual fault levels at distribution substations
- Table of actual fault level headroom.

5 PERFORMANCE COMPARED TO THE ORIGINAL PROJECT AIMS, OBJECTIVES AND SUCCESS CRITERIA

The project is on plan against the original aims, objectives and criteria.

Electricity North West completed a series of objective 1 tests on a number of standard and upgraded Long and Crawford legacy switchgear at KEMA in Arheim, Holland. Further items of switchgear will be tested later in the year.

Stage 2 is ongoing and will be completed in the next two months.

Stages 3 and 4 will follow completion of stages 1 and 2.

6 REQUIRED MODIFICATIONS TO THE PLANNED APPROACH DURING THE COURSE OF THE PROJECT

There have been no changes to the planned approach.

7 LESSONS LEARNT FOR FUTURE PROJECTS

The project is in its early stages and at this point there are no lessons to share. This will change as the project progresses.

8 THE OUTCOMES OF THE PROJECT

Not applicable.

9 PLANNED IMPLEMENTATION

Not applicable.

10 OTHER COMMENTS

Not applicable.