

Network Innovation Allowance Progress Report

Notes on Completion: Please refer to the appropriate NIA Governance Document to assist in the completion of this form.

Network Licensees must publish the required Project Progress information on the Smarter Networks Portal by 31st July 2014 and each year thereafter. The Network Licensee(s) must publish Project Progress information for each NIA Project that has developed new learning in the preceding relevant year.

Project Progress

Project Title

13kV Shunt Reactor Refurbishment

Project Reference

NIA_NGET0102

Project Licensee(s)

National Grid Electricity Transmission

Project Start Date

Dec 2013

Project Duration

15 Months

Nominated Project Contact(s)

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Scope

The scope of the project covers the relocation of a failed 13kV 2x30MVA shunt reactor (English Electric design) from Willesden substation, London to ABB, Drammen, Norway for inspection; technical teardown (to include recommendations on refurbishment options); redesign and if economically feasible, manufacture of the active part; refurbishment of reactor tank and cooler bank (with option to replace cooler bank with modern equivalent); factory acceptance test of refurbished unit to modern standards and installation and commissioning of the refurbished reactor in its original location at Willesden substation i.e. the reactor will reuse the existing plinth therefore negating the need for extensive civil works.

Objective(s)

To establish viability of refurbishment (including active part redesign) of a 13kV reactor.

Success Criteria

This project will be successful if we establish a methodology for refurbishment of 13kV Shunt Reactors suitable for modern standards. Further success for this project will be if the refurbishment is economically viable, and also if we can roll out the refurbishment option to the National Grid 13kV reactor fleet.

Performance Compared to the Original Project Aims, Objectives and Success Criteria

A NIA contract has been agreed with ABB and enabling site works (demolition of noise enclosure wall to release the failed reactor) are due to commence at Willesden substation in early June. This is slightly later than originally planned but current indications are that this should not have a negative impact on the final deliverable date

Currently, there is nothing to suggest that the original project aims and objectives can not be achieved and the success criteria remain unchanged.

Required Modifications to the Planned Approach During the Course of the Project

To date there have been no modifications to the planned approach.

Lessons Learnt for Future Projects

It is currently too early in the project to report key lessons learned.