

NR/L2/ELP/27238/APP-A

Standby generators

Appendix A Standby generators

A.1 Purpose

This Specification states the minimum maintenance periodic requirements for fixed and mobile standby generators for feeding fixed installations.

A.2 Scope

This document is applicable to all fixed and mobile standby generators owned and operated by Network Rail.

A.3 Reference documentation

See map NR/GN/ELP/27319 Appendix B

A.4 Definitions

On-load test	To test the starting of the standby generator and support the intended load under simulated mains failure conditions.
Off-load test	To test the starting of the standby generator without affecting the supply to the intended load and without a connected load

A.5 Maintenance requirements

A.5.1 General

The frequency and content of the maintenance tasks stated in this Specification are regarded as a minimum to prevent danger and to sustain operational availability.

The maintainer shall consult both the maintenance documentation and data sheets of the installation for details on tolerances, adjustments, tests and procedures.

The following requirements are for a typical standby generator installation. For installations of unique design the maintainer shall be responsible for obtaining appropriate specialist advice.

A.5.2 Battery Management

A.5.2.1 Start and control batteries

The longevity of the start battery is dependant on the type of battery and the type of charger. Batteries shall be renewed at the frequencies shown in Table A.1.

	Lead Acid	VRLA (Sealed Lead Acid)	Plante	Ni-Cad
Trickle Charger	2 yearly		20 yearly	
Intelligent Charger	4 yearly	4 yearly		10 yearly

Table A.1 – Battery Renewal Frequencies

It is preferable for battery renewal to be recorded separately within the maintenance management system because the frequency is variable.