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Supported by:



Federal Ministry
for the Environment, Nature Conservation,
Nuclear Safety and Consumer Protection



based on a decision of
the German Bundestag



www.ecopontes.com

EcoPontes – Maintenance and Spare Parts Concept



1 Objective

The aim of this maintenance and spare parts concept is to ensure high system availability and thus undisturbed operation.

This concept describes the basic processes for preventive maintenance and effective spare parts management. It establishes responsibilities for implementation.

2 Accountability

2.1 Work Specifications

The person responsible for the technology of the EcoPontes is responsible for the contents of this maintenance and spare parts concept.

2.2 Execution of work Scope

Compliance with these operating instructions is the responsibility of the management of EcoPontes.

3 Scope

The maintenance and spare parts concept is to be used at all EcoPontes locations and for every operating plant/machine.

4 Description

High plant availability is the basis for long-term successful operation. Unforeseen downtimes due to a lack of spare parts can mean production losses which leads to additional costs and the loss of sales revenue.

Therefore, it is necessary to operate a preventive maintenance and needs-based spare parts inventory.

Preventive maintenance is based on regular monitoring of the actual condition of machines and equipment in order to identify problems – and prevent them.

The following work is part of preventive maintenance:

- Mandatory or routine inspections
- System Testing
- Replacement of wearing parts
- Cleaning and lubricants or oil changes

- Measurement of performance data
- Documentation of the state of maintenance or wear

4.1 Creation of a maintenance plan

The maintenance plan shall list all units to be maintained. The following information shall be recorded:

- Designation
- Type
- Internal machine number
- Manufacturer machine number
- Prescribed inspection tasks and intervals

5 Obligation to instruct

The person responsible for operation of the EcoPontes must instruct the employees who regularly use or operate the equipment or machines on the necessary preventive, wear-related cleaning and repair measures. This also includes the introduction to the application and management of the maintenance plan.

6 Applicable information

Equipment Maintenance Log (see Appendix 7.1)

Spare parts list template (see Appendix 7.2)



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7 Appendix

7.1 Equipment Maintenance Log

	Department In-Charge					
Designation and type	Internal Machine Number	Manufacturer Machine Number	Conducted Maintenance Task(s)	Work completed by	Date/Time	Date for Next Maintenance



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7.2 List of spare parts and consumables

Pos.	Item	Description	Specification	Target stock
1	Motor oil	In case of own vehicle fleet at collection point		
2	Spare tires	In case of own vehicle fleet at collection point		
3	Bale binding line	In case of operating own baler/compaction machine.		
4	Work gloves	To be handed out to waste collectors and EcoPontes staff.		
5	Waste bags	To be handed out to waste collectors.		



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About Us

Rodiek & Co GmbH is a consulting company in the field of waste management, recycling and circular solutions.

It is our Mission to support the development of a functioning circular economy by providing experience and operational knowhow.

Our target regions are low and middle income countries, where waste management and recycling is still in its early stages. Our solutions are tailored to the specific local requirements and needs.

We provide services along the complete value chain from collection over sorting, to treatment and preparation for recycling.

We provide technical support for facilities, including vehicles, machinery as well as material flow management.

We also offer the development of sustainable recycling and energy concepts for local communities, Businesses and industries.

As a 100% daughter company of Nehlsen Group, one of the largest German waste management and recycling companies, we can access the operational knowhow and practical expertise from 99 years of waste management and recycling business in Germany.

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