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| Employer  SAKO BRNO A.S.  Project  **Modernization of WtE Plant SAKO Brno**  Date  July 2024 |

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| Part III, Appendix B8  Component numbering system (KKS) |



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# General Description

## Introduction

The Contractor shall as part of the Works develop and deliver a KKS manual.

The KKS manual shall be developed based on the Employer’s KKS guideline for the existing Line. The KKS guideline is attached as Annex 1 to this appendix.

To implement the technological and structured marking focused on the function of the equipment, the Employer has defined a binding methodology, which is based on the KKS marking system and is adapted, to the necessary extent, to the needs of SAKO Brno. The result of the project documentation according to this methodology will be an electronic documentation (ED) marked and linked to the asset register (AR) - the KKS code database. Ultimately, both databases are connected to the central database of the data server of the SAKO Brno, a.s. ED Manager system.

If the Contractor is not able to implement the KKS marking itself as part of the design documentation at the relevant stages, The Contractor may use the services of the Employer's existing authorized KKS administrator. The authorized KKS numbering administrator should check correctness of the KKS numbering.

In general, the KKS numbering of the Line shall follow the KKS system devised by VGB (from German: Kraftwerk Kennzeichen System) with the exceptions/clarifications, which appears from the Employer’s KKS guideline for the existing Line.

The intention is that the Line shall have a rational, simple, logical and uniform documentation (including KKS numbering) which shall assure good conditions for the operation and maintenance staff after commissioning. Changes can be implemented into the manual during the project.

## Objective & requirements of the KKS System

The purpose of the KKS manual is to have a guideline for the KKS System.

Through the KKS system it is possible to identify all Lines, components, etc. for all types of Line. The identification (the KKS numbering) shall be done according to function or location.

The system shall be used during design, construction, operation and maintenance of the Line.

The following requirements shall be met:

* unambiguous designation for all types of waste incineration Lines and involved processes;
* sufficient capacity and level of detail for designation of all systems and components;
* sufficient possibilities for inclusion of new technologies;
* common numbering system during design, Authority approval, construction, operation and maintenance;
* common system for the fields of machinery, electricity and CMS; the numbering can be done according to the process, the installation or geographical location;
* in accordance with current international standards;
* the designations can be used internationally;
* suitable for electronic handling.

**ANNEX 1 - EMPLOYER’S EXISTING KKS GUIDELINE**