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

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| Part III, Appendix E4  Specifications for Employer’s existing CCTV System |



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| Contents |

[1. Introduction 2](#_Toc170832596)

[2. As-built documentation for Existing CCTV system 5](#_Toc170832597)

# Introduction

This appendix provides the as-built documentation for the Employer’s existing CCTV system.

The technology uses CCTV systems from three manufacturers:

1-Siemens

2-Samsung

3-HIKVision

The list of existing technology cameras is as follows:

(CCTV SIEMENS - SISTORE MX, no recording):

1. Camera KA1N

Monitoring combustion chamber of boiler 2 through a sight glass

2. Camera KA2N

Monitoring combustion chamber of boiler 3 through a sight glass

3. Camera KA3N

The console is fixed to the hall structure in front of the watermark at boiler 2 and monitors the watermark level.

4. Camera KA4N

The console is fixed to the hall structure in front of the watermark at boiler 3 and monitors the watermark level.

5. Camera KA5N

The console is fixed on the side wall of the switch room substation in SO 103 at a height of approx. 9 m - opposite the end of the boiler 2 slag conveyer. The camera monitors the end of the slag conveyor and the point where the slag falls from this hopper onto the unsorted slag dump.

6. Camera KA6N

The console is fixed on the side wall of the switch room substation in SO 103 at a height of approx. 9 m - opposite the end of the boiler 3 slag conveyer. The camera monitors the end of the slag conveyor and the point where the slag falls from this hopper onto the unsorted slag dump.

7. Camera KA7N

The console is fixed on the side wall of SO 101 under the crane track over boiler 2 hopper The camera will monitor the hopper room and its immediate surroundings.

8. Camera KA8N

The console is fixed on the side wall of SO 101 under the crane track over boiler 3 hopper The camera monitors the space of the hopper itself and its immediate surroundings.

9. Camera KA9N

The console is fixed on the side wall of the J1 crane cabin in SO101. The camera will monitor the area of the waste bunker.

10. Camera KA10N

The console is fixed on the side wall of the J2 crane cabin in SO101. The camera monitors the waste bunker area - the area where material is fed to the waste bunker.

11. Camera KA11N

The console is mounted on the wall in the waste shredder hall in SO 401. The camera monitors the area of the waste shredder hall - the area where material is fed to the waste bunker.

12. Camera KA12N

The console is fixed to the wall in the turbine hall in SO 401. The camera monitors the area of the turbine hall.

13. Camera KA13N

The console is mounted on the wall in the final waste sorting hall in SO401. The camera monitors the final sorting line area.

14. Camera KA20

The console is fixed to the structure of the connecting bridge between SO106 and the office building and sanitary facilities. The camera monitors the bunker gate area.

(CCTV Tipa or HKVision, no recording):

15. Camera K7.1 In the boiler hall building, in the view direction of extractor K3 feeding and level

16. Camera K7.2 In the boiler hall building, in the view direction of extractor K3 to the slag room (thermal camera 2021)

17. Camera K7.3 In the boiler hall building, in the view direction of extractor K2 feeding and level

18. Camera K7.4 In the boiler hall building, in the view direction of extractor K3 to the slag room (thermal camera 2021)

19. Camera K5.3 In the lime preparation building, view of the lime pumps

Slag room cameras (CCTV-Hajtr, no recording):

20. skvara\_1 is fixed above the entrance door in the slag room area and monitors the crane handling zone during slag loading.

21. skvara\_2 is fixed above the door to the boiler K area 1 in the slag room area and monitors the crane handling zone when loading slag and conveyors.

Slag room crusher (CCTV-Hajtr, no recording):

22. drtic\_1 is fixed above the conveyor and monitors the conveyor belt.

23. drtic\_2 is located above the crusher hopper and monitors the hopper

24. volná-plocha roof SO401 monitors the open area (part of the temperature monitoring system - open area) syst. HIKVision

25. thermal camera - hopper K2 - HIKVision

26. thermal camera - hopper K3 - HIKVision

27. thermal camera- view of waste storage, direction towards J1- HIKVision

28. thermal camera, view of waste storage, direction towards J2 - HIKVision

29. thermal camera, view of waste storage hopper, crusher HIKVision

30. grab storage zone at J1 - HIKVision

31. grab storage zone at J2 - HIKVision

# As-built documentation for Existing CCTV system