

			Description 1.1 Scope of services	Check a	Adjust b	Repair c	Replace d	Inspection 3-run	6 months 3 runs	12 months 3-run
				<i>n.a.= not applicable</i>				<i>A-type grate</i>		
1	Waste chute									
	1.1	Feed hopper		+				a	a	a
		1.1.1	Seal to refuse pit	+				a	a	a
		1.1.2	Liner plates	+		+ max 1m ²		a	a	a,c
		1.1.3	Wall thickness measurement hopper surfaces, inside	+				n.a.	n.a.	a
		1.1.4	Side walls, inside	+		+ max 1m ²		a	a	a,c
		1.1.5	Front wall, inside	+		+ max 1m ²		a	a	a,c
		1.1.6	Drop edge	+		+		a	a	a,c
	1.2	Feed chute damper		+				a	a	a
		1.2.1	Hinged cover	+		+		a	a	a,c
		1.2.2	Damper bearing	+			+	a	a	a,d
		1.2.3	Hydraulic cylinder	+			+	a	a,d	a,d
		1.2.4	Threaded joints and shut-off valves	+			+	a	a,d	a,d
		1.2.5	Hydraulic hoses	+			+	a	a,d	a,d
		1.2.6	Grease pipes	+		+	+	a	a,c	a,c,d
		1.2.7	Manual lubrication points	+		+	+	a	a	a,c,d
	1.3	Water jacket		+				a	a	a
		1.3.1	Wall thickness measurement, inside	+				n.a.	n.a.	a
		1.3.2	Surfaces and weld seams	+		+ max 1m ²		a	a	a,c
		1.3.3	Waste level indicators	+			+	n.a.	a	a,d
	1.4	Transitions to feeder		+				a	a	a
		1.4.1	Plates at transition piece	+		+ max 1m ²	+	a	a,c	a,c,d
		1.4.2	Plates at side brickwork	+		+ max 1m ²	+	a	a,c	a,c,d
	1.5	Transition at boiler		+				a	a	a
		1.5.1	Curved cast-steel blocks	+			+	a	a,d	a,d
		1.5.2	Attachments for curved cast-steel blocks	+		+		a	a	a,c
		1.5.3	Seal / insulation at front wall header	+				a	a	a
	1.6	Chute cooling system		+				a	a	a

	1.6.1	Water jackets for chutes + transition piece	+					a	a	a
	1.6.2	Tubing	+					a	a	a
	1.6.3	Valves	+					a	a	a
	1.6.4	Thermostat valves	+				+	a	a	a,d
	1.6.5	Float tank / float valve	+	+	+	+		a	a,b	a,b,c,d
	1.6.6	Inspection ports	+					a	a	a
	1.6.7	Lower chute seal / compensator	+					a	a	a
2	Feeder									
	2.1	Transition piece	+					a	a	a
	2.1.1	Wall thickness measurement	+					n.a.	n.a.	a
	2.1.2	Surfaces + weld seams	+					a	a	a
	2.1.3.	Access points	+			+		a	a	a,c
	2.1.4	Transition to feed rams	+			+		a	a	a,c
	2.1.5	Side brick lining	+					a	a	a
	2.2	Feed table, cast-steel elements	+					a	a	a
	2.2.1	Substructure	+					a	a	a
	2.2.2	Cast-steel elements	+				+	a	a,d	a,d
	2.2.3	Cast-steel angle	+				+	a	a,d	a,d
	2.2.4	Side plates	+				+	a	a	a,d
	2.2.5	Division plates	+				+	a	a	a,d
	2.3	Feed rams, cast-steel elements	+					a	a	a
	2.3.1	Cast-steel elements	+				+	a	a,d	a,d
	2.3.2	Upper and side wear plates	+			+		a	a	a,c
	2.3.3	Sliding blocks	+				+	a	a	a,d
	2.3.4	Triangular brake plates	+				+	a	a,d	a,d
	2.3.5	Scrapers	+				+	a	a,d	a,d
	2.4	Feed ram drives	+					a	a	a
	2.4.1	Driving rod + seal	+				+	a	a	a,d
	2.4.2	Support and guide rollers	+			+	+	a	a,c,d	a,c,d
	2.4.3	Hydraulic cylinder	+				+	a	a,d	a,d
	2.4.4	Hydraulic valves	+				+	a	a,d	a,d

	2.4.5	Carriage for feed ram movement	+		+		a	a,c	a,c
	2.4.6	Position transmitter / limit switch settings	+	+		+	a	a,b,d	a,b,d
	2.5	Feeder siftings removal system	+				a	a	a
	2.5.1	Cover plates / expansion flaps	+		+ max 1m ²		a	a,c	a,c
	2.5.2	Feeder siftings hopper	+				a	a	a
	2.5.3	Cleaning device	+		+		a	a,c	a,c
3	Grate / compression plates/division plates/compensation blocks/fixed type side plates								
	3.1	Grate surface	+				a	a	a
	3.1.1	Grate end bars, only	+		+	+	a	a,c,d	n.a.
	3.1.2	Grate surface, complete incl. front grate step	+	+	+	+	a	a	a,b,c,d
	3.1.3	Revision of the grate surface on the control jig	+	+	+	+	n.a.	n.a.	a,b,c,d
	3.1.4	Clinker grate steps	+	+	+	+	a	a,c	a,b,c,d
	3.1.5	Thermocouples	+			+	a	a,d	a,d
	3.2	Compression plates/division plates/compensation blocks/fixed type side plates	+			+	a	a	a
	3.2.1	Fixed side plates	+			+	a	a,d	a,d
	3.2.2	Compression plates	+			+	a	a,d	a,d
	3.2.3	Division plates	+			+	a	a,d	a,d
	3.2.4	Compensation blocks	+			+	a	a,d	a,d
	3.2.5	Backing plates	+			+	a	a,d	a,d
	3.2.6	Tensioning elements	+	+		+	a	a,b,d	a,b,d
4	Grate substructure								
	4.1	Assembled parts	+				a	a	a
	4.1.1	Longitudinal frame	+		+		a	a,c	a,c
	4.1.2	Intermediate longitudinal frame / wear strips	+		+	+	a	a,c,d	a,c,d
	4.1.3	Carrier beams	+		+	+ max 1pcs	n.a.	n.a.	a,c,d
	4.1.4	Compartment walls	+		+	+ max 1pcs	n.a.	a,c	a,c,d
	4.1.5	Dimensional proportions	+	+			n.a.	a,b	a,b
	4.2	Moving parts	+				a	a	a
	4.2.1	Support rollers + guide rollers	+		+	+	n.a.	a,c,d	a,c,d
	4.2.2	Moving grate support / wear strips	+			+	n.a.	a,d	a,d
	4.2.3	Spherical bearings / pins	+			+	a	a	a,d

	4.2.4	Dimensional proportions	+	+			n.a.	a	a,b
	4.3	Grate drives	+				a	a	a
	4.3.1	Pins and bearings	+			+	a	a	a,d
	4.3.2.	Hydraulic cylinder	+			+	a	a	a,d
	4.3.3.	Joint head bearing	+			+	a	a	a,d
	4.3.4.	Seal assembly for grate drive connecting rod	+		+	+	a	a,c	a,c,d
	4.3.5.	Hydraulic hoses	+			+	a	a,d	a,d
	4.3.6.	Hydraulic valves and threaded joints	+			+	a	a,d	a,d
	4.3.7.	Position transmitters / limit switch settings	+	+		+	a	a,b,d	a,b,d
5	Grate siftings		+						
	5.1	Undergrate hopper	+				a	a	a
	5.1.1	Wall thickness measurement	+				n.a.	n.a.	a
	5.1.2	Access doors	+		+		a	a,c	a,c
	5.2	Siftings discharge duct	+				a	a	a
	5.2.1	Wall thickness measurement	+				n.a.	n.a.	a
	5.2.2	Cleaning flaps	+	+	+		n.a.	a,b,c	a,b,c
	5.2.3	Air admission flaps	+	+	+		a	a,b,c	a,b,c
	5.2.4	Feeder siftings flaps	+	+	+		a	a,b,c	a,b,c
	5.2.5	Grate siftings flaps	+	+	+		a	a,b,c	a,b,c
	5.2.6	Shafts, bearings, seals	+		+		a	a,c	a,c
	5.2.7	Pneumatic cylinder	+			+	a	a,d	a,d
	5.2.8	Hoses	+			+	a	a,d	a,d
6	Underfire air		+						
	6.1	Mechanical parts in undergrate hoppers / ducts	+				a	a	a
	6.1.1	Frames	+		+	+	a	a,c	a,c,d
	6.1.2	Orifice plates	+		+	+	a	a,c	a,c,d
	6.1.3	Levers + linkage	+		+	+	a	a,c	a,c,d
	6.1.4	Bearing assemblies	+		+	+	a	a,c	a,c,d
	6.1.5	Displays	+		+	+	a	a,c	a,c,d
	6.2	Hydraulic system	+				a	a	a
	6.2.1	Hydraulic cylinder	+			+	a	a,d	a,d

	6.2.2	Cylinder attachments	+			+	a	a,d	a,d
	6.2.3	Spherical bearing heads + pins	+			+	a	a,d	a,d
	6.2.4	Hydraulic hoses	+			+	a	a,d	a,d
	6.2.5	Hydraulic valves + threaded joints	+			+	a	a,d	a,d
7	Overfire air, recirculated gas		+						
	7.1	Mechanical parts	+				a	a	a
	7.1.1	Nozzle inserts	+			+ max 4pcs	a	a	a,d
	7.1.2	Nozzles	+				a	a	a
	7.1.3	Functionality of dampers	+				a	a	a
	7.1.4	Damper bearing assemblies	+				a	a	a
	7.1.5	Levers + linkage	+				a	a	a
	7.1.6	Displays	+				a	a	a
	7.2	Hydraulic system	+				a	a	a
	7.2.1	Hydraulic cylinder	+			+	a	a,d	a,d
	7.2.2	Cylinder attachments	+			+	a	a,d	a,d
	7.2.3	Spherical bearing heads + pins	+			+	a	a,d	a,d
	7.2.4	Hydraulic hoses	+			+	a	a,d	a,d
	7.2.5	Hydraulic valves + threaded joints	+			+	a	a,d	a,d
8	Bottom ash discharge		+						
	8.1	Clinker Weir	+				a	a	a
	8.1.1	Clinker flaps	+		+	+	a	a,c	a,c
	8.1.2	Linkage yoke drive	+			+	a	a,d	a,d
	8.1.3	linkage, levers	+			+	a	a,d	a,d
	8.1.4	grip lock assembly, displays	+		+	+	a	a,c,d	a,c,d
	8.1.5	lubrication	+		+		a	a,b,c	a,b,c
	8.2	Clinker hopper	+				a	a	a
	8.2.1	Hopper surfaces / plates	+		+max 1 m ²		a	a,c	a,c
	8.2.2	Cast-steel elements on boiler support structure	+			+	a	a,d	a,d
	8.3	Connecting piece	+				a	a	a
	8.3.1	Wear plates (welded)	+		+max 1 m ²		a	a	a,c
	8.3.2	Wear plates (screwed)	+			+	n.a.	n.a.	n.a.

		8.3.3	Siftings discharge duct seal	+			+	a	a	a,d
9	Discharger									
	9.1	Housing		+				a	a	a
		9.1.1	Cover plates / flaps	+		+		a	a,c	a,c
		9.1.2	Doors	+		+		a	a,c	a,c
		9.1.3	Tubing	+				a	a	a
		9.1.4	Overflow and drain	+				a	a	a
		9.1.5	Wear plates	+			+	a	a,d	a,d
		9.1.6	Liner plates	+			+	a	a,d	a,d
	9.2	Drive		+				a	a	a
		9.2.1	Drive shaft	+		+		a	a,c	a,c
		9.2.2	Hydraulic cylinder	+			+	a	a,d	a,d
		9.2.3	Pins and bearings	+			+	a	a	a,d
		9.2.4	Hydraulic hoses	+			+	a	a,d	a,d
		9.2.5	Hydraulic valves and threaded joints	+			+	a	a,d	a,d
		9.2.6	Limit switch	+	+		+	a	a,b,d	a,b,d
	9.3	Discharging ram		+				a	a	a
		9.3.1	Ram front plate	+		+		a	a,c	a,c
		9.3.2	Ram top plates	+		+		a	a,c	a,c
		9.3.3	Scraper	+			+	a	a	a,d
		9.3.4	Sludge stop weir	+			+	a	a,d	a,d
		9.3.5	Pins and bearings	+			+	a	a,d	a,d
		9.3.6	Wear strips	+			+	a	a,d	a,d
10	Hydraulic system, pneumatic system, lubrication, sealing air			+						
	10.1	Hydraulic pumping station		+				a	a	a
		10.1.1	Pumps	+			+ max 2pcs	a	a,d	a,d
		10.1.2	Valves, threaded joints	+			+	a	a,d	a,d
		10.1.3	Pressures / settings	+	+			a,b	a,b	a,b
		10.1.4	Hydraulic hoses	+			+	a	a,d	a,d
		10.1.5	Thermostat valves	+			+	a	a	a,d
		10.1.6	Return line filter	+			+	a	a,d	a,d

	10.2	Hydraulic cabinet	+					a	a	a
	10.2.1	Hydraulic valves + threaded joints	+			+		a	a,d	a,d
	10.2.2	Pressures / settings	+	+				a,b	a,b	a,b
	10.2.3	Hydraulic hoses	+			+		a	a,d	a,d
	10.3	Pneumatic system	+					a	a	a
	10.3.1	Valves	+			+		a	a,d	a,d
	10.3.2	Piping + hoses	+		+	+		a	a,c	a,c,d
	10.4	Manual lubrication	+					a	a	a
	10.4.1	Lubrication points / Lubricator	+	+		+		a	a,b,d	a,b,d
	10.4.2	Piping + hoses	+		+	+		a	a,c	a,d
11	Function checks / test runs		+					X	X	X
	11.1	Bridge breaker	+	+					n.a.	n.a.
	11.2	Feed chute damper	+	+					a,b	a,b
	11.3	Feeder	+	+					a,b	a,b
	11.4	Grate drives / grate	+	+					a,b	a,b
	11.5	Clinker roller	+	+					n.a.	n.a.
	11.6	Clinker weir	+	+					a,b	a,b
	11.7	Ash pit slide gate	+	+					n.a.	n.a.
	11.8	Grate siftings flaps	+	+					a,b	a,b
	11.9	Discharger	+	+					a,b	a,b
12	Overhaul report									
	12.1	Activity report						X	X	X
	12.2	Dimension certificates							X	X
	12.3	List of parts installed						X	X	X
	12.4	Status report / perspectives regarding future work						X	X	X