

Annex 2 to the Certificate No. 156/2018

**GSES Glückauf Sondershausen
Entwicklungs- und Sicherungsgesellschaft mbH
Schachtstraße 20
D-99706 Sondershausen**

Specification of all types of waste to the certificated activities in accordance with the Regulation on the “European Waste List” - AVV of 10.12.2001

Please note: Any waste marked with an asterisk (*) is considered as a hazardous waste pursuant to § 48 of the Closed Substance Cycle and Waste Management Act (KrWG).

Please refer to the valid approval documentation concerning specific restrictions on a type of waste (indicated/stated as waste codes).

certification scope: eliminate of waste (underground storage)

Disposer No. R 65 B 11 205

| waste- code | Waste Designation |
|----------------|--|
| 01 04 07* | waste containing dangerous substances from physical and chemical processing of nonmetalliferous minerals |
| 01 05 05* | oil-containing drilling muds and wastes |
| 01 05 06* | drilling muds and other drilling wastes containing dangerous substances |
| 01 05 07 | barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 |
| 01 05 08 | chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 |
| 04 01 06 | sludges, in particular from on-site effluent treatment containing chromium |
| 04 01 07 | sludges , in particular from on-site effluent treatment free of chromium |
| 04 01 99 | wastes not otherwise specified |
| 04 02 19* | sludges from on-site effluent treatment containing dangerous substances |
| 04 02 20 | sludges from on-site effluent treatment other than those mentioned in 04 02 19 |
| 05 01 02* | desalter sludges |
| 05 01 03* | tank bottom sludges |
| 05 01 06* | oily sludges from maintenance operations of the plant or equipment |
| 05 01 09* | sludges from on-site effluent treatment containing dangerous substances |
| 05 01 10 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 |
| 05 01 15* | spent filter clays |
| 05 01 16 | sulphur-containing wastes from petroleum desulphurisation |
| 05 01 17 | bitumen |
| 05 01 99 | wastes not otherwise specified |

| waste- code | Waste Designation |
|----------------|--|
| 05 07 01* | wastes containing mercury |
| 05 07 99 | wastes not otherwise specified |
| 06 03 11* | solid salts and solutions containing cyanides |
| 06 03 13* | solid salts and solutions containing heavy metals |
| 06 03 14 | solid salts and solution other than those mentioned in 06 03 11 and 06 03 13 |
| 06 03 15* | metallic oxides containing heavy metals |
| 06 03 16 | metallic oxides other than those mentioned in 06 03 15 |
| 06 03 99 | wastes not otherwise specified |
| 06 04 03* | wastes containing arsenic (notifications No. FR2014068023 and FR2014068021; valid up to: 17.08.2015) |
| 06 04 04* | wastes containing mercury |
| 06 04 05* | wastes containing other heavy metals |
| 06 04 99 | wastes not otherwise specified |
| 06 05 02* | sludges from on-site effluent treatment containing dangerous solutions |
| 06 05 03 | sludges from onsite effluent treatment other than those mentioned in 06 05 02 |
| 06 06 02* | wastes containing dangerous sulphides |
| 06 06 03 | wastes containing sulphides other than those mentioned in 06 06 02 |
| 06 06 99 | wastes not otherwise specified |
| 06 07 01* | wastes containing asbestos from electrolysis |
| 06 07 02* | activated carbon from chlorine production (assessment No. 0309/2013 - TLBA; reference No. 13680/13 R2-81c-144035, date: 17.05.2013) |
| 06 07 03* | barium sulphate sludge containing mercury |
| 06 09 02 | phosphorus slag |
| 06 09 03* | calcium-based reaction wastes containing or contaminated with dangerous substances |
| 06 09 04 | calcium-based reaction wastes other than those mentioned in 06 09 03 |
| 06 09 99 | wastes not otherwise specified |
| 06 10 02* | wastes containing dangerous substances |
| 06 10 99 | wastes not otherwise specified |
| 06 11 01 | calcium-based reaction wastes from titanium dioxide production |
| 06 11 99 | wastes not otherwise specified |
| 06 13 01* | inorganic plant protection products, wood-preserving agents and other biocides |
| 06 13 02* | spent activated carbon (except 06 07 02) |
| 06 13 03 | carbon black |
| 06 13 04* | wastes from asbestos processing |
| 06 13 05* | soot |
| 07 01 07* | halogenated still bottoms and reaction residues |
| 07 01 08* | other still bottoms and reaction residues |
| 07 01 10* | other filter cakes and spent absorbents |
| 07 04 08* | other still bottoms and reaction residues |
| 07 06 08* | other still bottoms and reaction residues |
| 07 07 07* | halogenated still bottoms and reaction residues |
| 07 07 08* | other still bottoms and reaction residues |
| 08 02 01 | waste coating powders |
| 08 02 02 | aqueous sludges containing ceramic materials |
| 08 03 17* | waste printing toner containing dangerous substances |
| 08 03 18 | waste printing toner other than those mentioned in 08 03 17 |
| 08 03 99 | wastes not otherwise specified |

| waste- code | Waste Designation |
|----------------|--|
| 10 01 01 | bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04) |
| 10 01 02 | coal fly ash |
| 10 01 03 | fly ash from peat and untreated wood |
| 10 01 04* | oil fly ash and boiler dust |
| 10 01 05 | calcium-based reaction wastes from flue-gas desulphurisation in solid form |
| 10 01 13* | fly ash from emulsified hydrocarbons used as fuel |
| 10 01 14* | bottom ash, slag and boiler dust from co-incineration containing dangerous substances |
| 10 01 16* | fly ash from co-incineration containing dangerous substances |
| 10 01 18* | wastes from gas cleaning containing dangerous substances |
| 10 01 19* | wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18 |
| 10 01 20* | sludges from on-site effluent treatment containing dangerous substances |
| 10 01 21 | sludges from on-site effluent treatment other than those mentioned in 10 01 20 |
| 10 02 01 | wastes from the processing of slag |
| 10 02 02 | unprocessed slag |
| 10 02 07* | solid wastes from gas treatment containing dangerous substances |
| 10 02 08 | solid wastes from gas treatment other than those mentioned in 10 02 07 |
| 10 02 10 | mill scales |
| 10 02 13* | sludges and filter cakes from gas treatment containing dangerous substances |
| 10 02 14 | sludges and filter cakes from gas treatment other than those mentioned in 10 02 13 |
| 10 02 15 | other sludges and filter cakes |
| 10 02 99 | wastes not otherwise specified |
| 10 03 18 | carbon-containing waste from anode manufacture other than those mentioned in 10 03 17 |
| 10 03 19* | flue-gas dust containing dangerous substances |
| 10 03 21* | other particulates and dust (including ball-mill dust) containing dangerous substances |
| 10 03 23* | solid wastes from gas treatment containing dangerous substances |
| 10 03 25* | sludges and filter cakes from gas treatment containing dangerous substances |
| 10 03 26 | sludges and filter cakes from gas treatment other than those mentioned in 10 03 25 |
| 10 04 01* | slags from primary and secondary production |
| 10 04 02* | dross and skimmings from primary and secondary production |
| 10 04 04* | flue-gas dust |
| 10 04 05* | other particulates and dust |
| 10 04 06* | solid wastes from gas treatment |
| 10 04 07* | sludges and filter cakes from gas treatment |
| 10 05 01 | slags from primary and secondary production |
| 10 05 03* | flue-gas dust |
| 10 05 04 | other particulates and dust |
| 10 05 05* | solid waste from gas treatment |
| 10 05 06* | sludges and filter cakes from gas treatment |
| 10 05 99 | wastes not otherwise specified |
| 10 06 01 | slags from primary and secondary production |
| 10 06 02 | dross and skimmings from primary and secondary production |
| 10 06 03* | flue-gas dust |
| 10 06 04 | other particulates and dust |
| 10 06 06* | solid waste from gas treatment |
| 10 06 07* | sludges and filter cakes from gas treatment |
| 10 06 99 | wastes not otherwise specified |

| waste- code | Waste Designation |
|----------------|---|
| 10 07 01 | slags from primary and secondary production |
| 10 07 02 | dross and skimmings from primary and secondary production |
| 10 07 03 | solid waste from gas treatment |
| 10 07 04 | other particulates and dust |
| 10 07 05 | sludges and filter cakes from gas treatment |
| 10 07 99 | wastes not otherwise specified |
| 10 08 04 | particulates and dust |
| 10 08 09 | other slags |
| 10 08 13 | carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12 |
| 10 08 14 | anode scrap |
| 10 08 15* | flue-gas dust containing dangerous substances |
| 10 08 16 | flue-gas dust other than those mentioned in 10 08 15 |
| 10 08 17* | sludges and filter cakes from flue-gas treatment containing dangerous substances |
| 10 08 18 | sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17 |
| 10 08 19* | wastes from cooling-water treatment containing oil |
| 10 08 20 | wastes from cooling-water treatment other than those mentioned in 10 08 19 |
| 10 08 99 | wastes not otherwise specified |
| 10 09 03 | furnace slag |
| 10 09 05* | casting cores and moulds which have not undergone pouring containing dangerous substances |
| 10 09 06 | casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05 |
| 10 09 07* | casting cores and moulds which have undergone pouring containing dangerous substances |
| 10 09 08 | casting cores and moulds have undergone pouring other than those mentioned in 10 09 07 |
| 10 09 09* | flue-gas dust containing dangerous substances |
| 10 09 10 | flue-gas dust other than those mentioned in 10 09 09 |
| 10 09 11* | other particulates containing dangerous substances |
| 10 09 12 | other particulates other than those mentioned in 10 09 11 |
| 10 09 13* | waste binders containing dangerous substances |
| 10 09 14 | waste binders other than those mentioned in 10 09 13 |
| 10 09 99 | wastes not otherwise specified |
| 10 10 03 | furnace slag |
| 10 10 05* | casting cores and moulds which have not undergone pouring containing dangerous substances |
| 10 10 06 | casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05 |
| 10 10 07* | casting cores and moulds which have undergone pouring containing dangerous substances |
| 10 10 08 | casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07 |
| 10 10 09* | flue-gas dust containing dangerous substances |
| 10 10 10 | waste preparation mixture before thermal processing, other than those mentioned in 10 11 09 |
| 10 10 11* | other particulates containing dangerous substances |
| 10 10 12 | waste glass other than those mentioned in 10 11 11 |
| 10 10 13* | waste binders containing dangerous substances |
| 10 10 14 | waste binders other than those mentioned in 10 10 13 |
| 10 10 99 | wastes not otherwise specified |


| waste- code | Waste Designation |
|----------------|--|
| 10 11 03 | waste glass-based fibrous materials |
| 10 11 05 | particulates and dust |
| 10 11 09* | waste preparation mixture before thermal processing, containing dangerous substances |
| 10 11 10 | waste preparation mixture before thermal processing, other than those mentioned in 10 11 09 |
| 10 11 11* | waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes) |
| 10 11 12 | waste glass other than those mentioned in 10 11 11 |
| 10 11 13* | glass-polishing and -grinding sludge containing dangerous substances |
| 10 11 14 | glass-polishing and -grinding sludge other than those mentioned in 10 11 13 |
| 10 11 15* | solid wastes from flue-gas treatment containing dangerous substances |
| 10 11 16 | solid wastes from flue-gas treatment other than those mentioned in 10 11 15 |
| 10 11 17* | sludges and filter cakes from flue-gas treatment containing dangerous substances |
| 10 11 18 | sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17 |
| 10 11 19* | solid wastes from on-site effluent treatment containing dangerous substances |
| 10 11 20 | solid wastes from on-site effluent treatment other than those mentioned in 10 11 19 |
| 10 11 99 | wastes not otherwise specified |
| 10 12 03 | particulates and dust |
| 10 12 05 | sludges and filter cakes from gas treatment |
| 10 12 06 | discarded moulds |
| 10 12 08 | waste ceramics, bricks, tiles and construction products (after thermal processing) |
| 10 12 09* | solid wastes from gas treatment containing dangerous substances |
| 10 12 10 | solid wastes from gas treatment other than those mentioned in 10 12 09 |
| 10 12 11* | wastes from glazing containing heavy metals |
| 10 12 12 | wastes from glazing other than those mentioned in 10 12 11 |
| 10 12 13 | sludge from on-site effluent treatment |
| 10 12 99 | wastes not otherwise specified |
| 10 13 06 | particulates and dust (except 10 13 12 and 10 13 13) |
| 10 13 07 | sludges and filter cakes from gas treatment |
| 10 13 09* | wastes from asbestos-cement manufacture containing asbestos |
| 10 13 10 | wastes from asbestos-cement manufacture other than those mentioned in 10 13 09 |
| 10 13 11 | wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10 |
| 10 13 12* | solid wastes from gas treatment containing dangerous substances |
| 10 13 13 | solid wastes from gas treatment other than those mentioned in 10 13 12 |
| 10 13 14 | waste concrete and concrete sludge |
| 10 13 99 | wastes not otherwise specified |
| 10 14 01* | waste from gas cleaning containing mercury |
| 11 01 08* | phosphatising sludges |
| 11 01 09* | sludges and filter cakes containing dangerous substances |
| 11 01 10 | sludges and filter cakes other than those mentioned in 11 01 09 |
| 11 01 13* | degreasing wastes containing dangerous substances |
| 11 01 99 | wastes not otherwise specified |
| 11 02 02* | sludges from zinc hydrometallurgy (including jarosite, goethite) |
| 11 02 03 | wastes from the production of anodes for aqueous electrolytical processes |
| 11 02 05* | wastes from copper hydrometallurgical processes containing dangerous substances |
| 11 02 06 | wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05 |
| 11 02 07* | other wastes containing dangerous substances |
| 11 02 99 | wastes not otherwise specified |
| 11 03 01* | waste containing cyanide |
| 11 03 02* | other wastes |

| waste- code | Waste Designation |
|----------------|--|
| 11 05 01 | hard zinc |
| 11 05 02 | zinc ash |
| 11 05 03* | solid wastes from gas treatment |
| 11 05 04* | spent flux |
| 11 05 99 | wastes not otherwise specified |
| 12 01 14* | machining sludges containing dangerous substances |
| 12 01 15 | machining sludges other than those mentioned in 12 01 14 |
| 12 01 16* | waste blasting material containing dangerous substances |
| 12 01 17 | waste blasting material other than those mentioned in 12 01 16 |
| 12 01 18* | metal sludge (grinding, honing and lapping sludge) containing oil |
| 12 01 20* | spent grinding bodies and grinding materials containing dangerous substances |
| 12 01 21 | spent grinding bodies and grinding materials other than those mentioned in 12 01 20 |
| 12 01 99 | wastes not otherwise specified |
| 16 01 08* | components containing mercury |
| 16 01 11* | brake pads containing asbestos |
| 16 01 12 | brake pads other than those mentioned in 16 01 11 |
| 16 01 21* | hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14 |
| 16 02 15* | hazardous components removed from discarded equipment |
| 16 03 03* | inorganic wastes containing dangerous substances |
| 16 03 04 | inorganic wastes other than those mentioned in 16 03 03 |
| 16 05 07* | discarded inorganic chemicals consisting of or containing dangerous substances |
| 16 05 09 | discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 |
| 16 06 01* | lead batteries |
| 16 06 02* | Ni-Cd batteries |
| 16 06 03* | mercury-containing batteries |
| 16 06 04 | alkaline batteries (except 16 06 03) |
| 16 06 05 | other batteries and accumulators |
| 16 06 06* | separately collected electrolyte from batteries and accumulators |
| 16 08 02* | spent catalysts containing dangerous transition metals or dangerous transition metal compounds |
| 16 08 03 | spent catalysts containing transition metals or transition metal compounds not otherwise specified |
| 16 08 04 | spent fluid catalytic cracking catalysts (except 16 08 07) |
| 16 08 05* | spent catalysts containing phosphoric acid |
| 16 08 07* | spent catalysts contaminated with dangerous substances |
| 16 11 03* | other linings and refractories from metallurgical processes containing dangerous substances |
| 16 11 04 | other linings and refractories from metallurgical processes other than those mentioned in 16 11 03 |
| 16 11 05* | linings and refractories from non-metallurgical processes containing dangerous substances |
| 16 11 06 | linings and refractories from non-metallurgical processes other than those mentioned in 16 11 05 |
| 17 01 06* | mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances |
| 17 02 04* | glass, plastic and wood containing or contaminated with dangerous substances |
| 17 03 01* | bituminous mixtures containing coal tar |
| 17 03 02 | bituminous mixtures containing other than those mentioned in 17 03 01 |
| 17 04 09* | metal waste contaminated with dangerous substances |
| 17 04 10* | cables containing oil, coal tar and other dangerous substances |
| 17 04 11 | cables other than those mentioned in 17 04 10 |

| waste- code | Waste Designation |
|----------------|--|
| 17 05 03* | soil and stones containing dangerous substances |
| 17 05 04 | soil and stones other than those mentioned in 17 05 03 |
| 17 05 05* | dredging spoil containing dangerous substances |
| 17 05 06 | dredging spoil other than those mentioned 17 05 05 |
| 17 05 07* | track ballast containing dangerous substances |
| 17 05 08 | track ballast other than those mentioned in 17 05 07 |
| 17 06 01* | insulation materials containing asbestos |
| 17 06 03* | other insulation materials consisting of or containing dangerous substances |
| 17 06 04 | insulation materials other than those mentioned in 17 06 01 and 17 06 03 |
| 17 06 05* | construction materials containing asbestos |
| 17 08 01* | gypsum-based construction materials contaminated with dangerous substances |
| 17 08 02 | gypsum-based construction materials other than those mentioned in 17 08 01 |
| 17 09 01* | construction and demolition wastes containing mercury |
| 17 09 03* | other construction and demolition wastes (including mixed wastes) containing dangerous substances |
| 17 09 04 | mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 |
| 18 01 06* | chemicals consisting of or containing dangerous substances |
| 18 01 07 | chemicals other than those mentioned in 18 01 06 |
| 19 01 02 | ferrous materials removed from bottom ash |
| 19 01 05* | filter cake from gas treatment |
| 19 01 07* | solid wastes from gas treatment |
| 19 01 10* | spent activated carbon from flue-gas treatment |
| 19 01 11* | bottom ash and slag containing dangerous substances |
| 19 01 12 | bottom ash and slag other than those mentioned in 19 01 11 |
| 19 01 13* | fly ash containing dangerous substances |
| 19 01 14 | fly ash other than those mentioned in 19 01 13 |
| 19 01 15* | boiler dust containing dangerous substances |
| 19 01 16 | boiler dust other than those mentioned in 19 01 15 |
| 19 01 19 | sands from fluidised beds |
| 19 01 99 | wastes not otherwise specified |
| 19 02 03 | premixed wastes composed only of non-hazardous wastes |
| 19 02 04* | premixed wastes composed of at least one hazardous waste |
| 19 02 05* | sludges from physico/chemical treatment containing dangerous substances |
| 19 02 06 | sludges from physico/chemical treatment other than those mentioned in 19 02 05 |
| 19 02 11* | other wastes containing dangerous substances |
| 19 02 99 | wastes not otherwise specified |
| 19 03 04* | wastes marked as hazardous, partly stabilised |
| 19 03 05 | stabilised wastes other than those mentioned in 19 03 04 |
| 19 03 06* | wastes marked as hazardous, solidified |
| 19 03 07 | solidified wastes other than those mentioned in 19 03 06 |
| 19 04 01 | vitrified waste |
| 19 04 02* | fly ash and other flue-gas treatment wastes |
| 19 04 03* | non-vitrified solid phase |
| 19 08 02 | waste from desanding |
| 19 08 06* | saturated or spent ion exchange resins |
| 19 08 08* | membrane system waste containing heavy metals |
| 19 08 13* | sludges containing dangerous substances from other treatment of industrial waste water |
| 19 08 14 | sludges from other treatment of industrial waste water other than those mentioned in 19 08 13 |

| waste- code | Waste Designation |
|----------------|---|
| 19 09 04 | spent activated carbon |
| 19 09 05 | saturated or spent ion exchange resins |
| 19 10 03* | fluff-light fraction and dust containing dangerous substances |
| 19 10 04 | fluff-light fraction and dust other than those mentioned in 19 10 03 |
| 19 10 05* | other fractions containing dangerous substances |
| 19 11 01* | spent filter clays |
| 19 11 06 | sludges from on-site effluent treatment other than those mentioned in 19 11 05 |
| 19 12 11* | other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances |
| 19 13 01* | solid wastes from soil remediation containing dangerous substances |
| 19 13 02 | solid wastes from soil remediation other than those mentioned in 19 13 01 |
| 19 13 03* | sludges from soil remediation containing dangerous substances |
| 19 13 04 | sludges from soil remediation other than those mentioned in 19 13 03 |
| 19 13 05* | sludges from groundwater remediation containing dangerous substances |
| 20 01 34 | batteries and accumulators other than those mentioned in 20 01 33 |

Arnstadt, 29.11.2018
(city, date)


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(representative expert)