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1. Context

Certification as a WEEELABEX Operator indicates that WEEE received by a treatment *or preparation for re-use* operator under the selected *WEEE stream* is handled and treated in compliance with the requirements of the WEEELABEX Conformity Verification documents as defined in the document B 04 WEEELABEX Guidance Document (hereinafter "WEEELABEX requirements").

2. Scope

- 2.1 WEEELABEX Audits will be performed against eight treatment process criteria enabling Operators to become approved for one or more *WEEE* streams depending on the type of treatment activity they perform (see figure 1).
- 2.2 The following **WEEE** streams can be individually <u>or</u> collectively included within the scope of an approved WEELABEX Operator's Conformity Verification Audit:
- A Large appliance (WEEE Category 4; may contain electric water boilers/heaters and radiators containing oil belonging to Category 1)
- B Mixed equipment (WEEE Categories 5, 6; may contain large appliances Category 4 associated with collection and/or treatment of small equipment; may contain radiators containing oil belonging to Category 1)
- C Temperature exchange equipment (WEEE Category 1)
- D CRT display appliances (WEEE Category 2) and cathode ray tubes
- E Flat panel display equipment (WEEE Category 2) and flat panel displays
- F Gas discharge lamps (WEEE Category 3)
- G Photovoltaic panels (WEEE Category 4)
- H Other (other process streams or variations which appear to fall outside of these shall be discussed with the WEEELABEX Office at the time of application. The WEEELABEX Office may refer the matter to the Governing Council for a decision)

Note: The WEEE Categories are based on the DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE)



- 2.2.1 The respective **WEEE** stream or streams for which a WEEELABEX Conformity Verification has been carried out shall be included in the listing information published, and the "Certification of Conformity" document issued by the WEEELABEX Office to the WEEELABEX Operator.
- 2.3 Each WEEE stream will be determined by the type of treatment carried out:
 - Type 0: Manual cannibalisation of appliances (no depollution)
 - Type 1: Manual treatment, including all or some depollution.
 - Type 2: Mechanical treatment (pre-treatment and intermediate treatment), or specific manual treatment, including some or all depollution (where indicated).
 - Type 3: Advanced mechanical treatment, including some or all depollution (where indicated).
 - Type 4: End-processing (pure fractions), or incineration / energy from waste facilities.
 - Re-use: Preparation for re-use process (checking, cleaning, or repairing recovery

operations, by which products or components of products that have become waste are prepared so that they can be re-used without any other pre-processing).

2.3.1 Eligible treatment types:

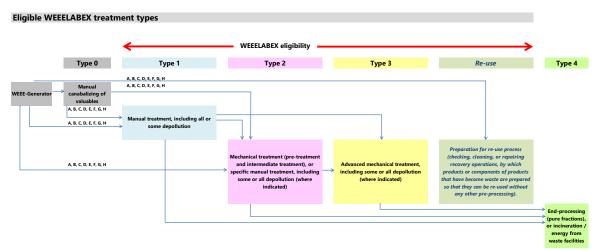


Figure 1

- 2.3.2 Only operators performing Type 1, Type 2 and Type 3 treatments *or Preparation for Reuse process* (either singularly or together at the same site) may apply for WEEELABEX Conformity Verification. Type 0: Manual cannibalisation of appliances (no depollution) operators will not be eligible to apply for WEEELABEX Operator status at any time.
- 2.3.3 A more detailed description of the activities performed by the above treatment types and examples may be found at *Annex I* and *Annex II*.
- 2.3.4 Operators may perform a singular or combination of Type 1, Type 2 and Type 3 treatment or Preparation for Re-use process activities at their facility for one or several of the WEEE streams noted in clause 2.2. An operator shall seek conformity verification for all the activities performed at his facility for the relevant WEEE stream he may not apply for part of his process (e.g. if an operator performs step 1 and step 2 activities for the Temperature exchange equipment stream, he may not seek conformity verification for just step 1 but must apply for the both steps; or if an operator performs Type 1 manual treatment and Type 2 mechanical treatment and Type 3 advanced mechanical treatment of fractions or components and Preparation for Re-use process for the Mixed equipment stream, he may not seek conformity verification for just Type 1, or Type 1&2 treatment but must apply for all the treatment activities performed at his facility for the relevant treatment process stream).



- 2.4 An operator who performs Type 1 treatment operations alone will only be certified as a WEEELABEX Operator if he is able to record the downstream treatment of WEEE and fractions thereof by a subsequent Type 2 or Type 3 or another Type 1 operator. The documentation shall contain at least:
 - copies of legal authorisation and transportation documents;
 - results from a batch test(s) for non-pure fraction(s) that is sent from the Type 1 operator to the subsequent Type 2 or Type 3 or another Type 1 operator (where such a fraction contains 2 % or more impurities by mass, and this fraction is greater than 20 % of the mass of the original input material to the treatment process). Batch test shall be performed according to the EN 50625-1, Annex D.
 - results from a special performance test on the material that is sent from the Type 1 operator to the subsequent Type 2 or another Type 1 operator (the special performance test shall be performed according to the EN 50625-2-3 and CLC/TS 50625-3-4 for temperature exchange equipment;
 - de-pollution monitoring according to the WEEELABEX requirements for treatment process streams C, D, E, F and G (see clause 2.2); and
 - documents that record downstream monitoring of each fraction and records describing the determination of recycling and recovery rates (an overview of the downstream documentation required is given in Annex III).

If downstream operator(s) is WEEELABEX certified, above mentioned 2.4 article documentation shall not be necessary.

2.5 Operators who perform Type 2 or Type 3 treatment operations and who receive partially treated appliances from a Type 0 and/or a Type 1 and/or a Type 2 operator (who is not certified as a WEEELABEX Operator) will only be considered for certification as an WEEELABEX Operator if he (the Type 2 or Type 3 operator) can provide evidence of the checks and depollution activities he performs to ensure that the partially treated appliances meet with the WEEELABEX requirements (see Annex II for examples of "treat" and "partially treat").

3. Procedure

- 3.1 Primarily the Type 1 operator who receives and treats¹ the WEEE is expected to seek Conformity Verification and be responsible for ensuring that all downstream partners meet with all of the WEEELABEX requirements.
- 3.2 Type 2 treatment operators receiving partially treated WEEE from a Type 1 (candidate) WEEELABEX Operator will be required to undertake separate Conformity Verification to determine compliance with the requirements of the WEEELABEX requirements.

NOTE: An example of a Type 2 operator in this instance would be a facility where 'step two' treatment of temperature exchange equipment is carried out (treatment of cabinets and capture of the blowing agent). Other examples are given in the Annex I and Annex II.

3.3 Type 2 treatment operators receiving partially treated WEEE from a Type 1 operator may choose to seek separate Conformity Verification to determine compliance with the WEEELABEX requirements.

NOTE: An example of a Type 2 operator in this instance would be a facility that receives partially treated WEEE from a Type 1 operator who has signalled they are not able or inclined to seek full Conformity Verification in their own right. The WEEE received by a Type 2 operator in this manner may be in addition to other WEEE streams received directly from the WEEE generator. Other examples are given in the Annex I and Annex II

3.4 Type 3 treatment operators receiving WEEE fractions or components may choose to seek Conformity Verification to determine compliance with the WEELABEX requirements.

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¹ See Annex II



NOTE 1: An example of a Type 3 operator would be a facility where plastics are treated to remove impurities (BFRs) and separate the polymers etc. to end-of-waste status. Other examples are given in the Annex I and Annex II

NOTE 2: Waste brokers 2 may also be eligible after the auditing service will be announced by WEELABEX Organization whereby their management systems and their downstream partners would be audited (independently) to verify the routes and compliance with the WEELABEX requirements whilst maintaining the confidentiality of their commercial downstream chain.

3.5 Preparation for Re-use operators receiving whole WEEE or fractions or components may choose to seek Conformity Verification to determine compliance with the WEELABEX requirements.

NOTE 1: Preparation for re-use process means checking, cleaning, or repairing recovery operations, by which products or components of products that have become waste are prepared so that they can be re-used without any other pre-processing.

4. Application Process

All prospective operators (auditees) are required to complete a Declaration of Intent form (to confirm their readiness for the Conformity Verification Audit) and will be expected to abide by the terms and conditions set down in the WEEELABEX Treatment Operator Agreement [available from the WEEELABEX office]. The Declaration of Intent shall be submitted for each new Conformity Verification process cycle (it means including each consecutive conformity verification process).

The declaration will in most cases be the result of the treatment operator's internal, voluntary conformity verification. The declaration of intent will allow for an evaluation of the eligibility of the Operator.

An Application Fee will be payable by the operator to the WEELABEX Organisation with their Declaration of Intent *one-time in the single amount disregards quantity of the WEEE* streams they wish to be considered during the audit. This fee may be varied from time to time according to the requirements of the WEELABEX Organization. The Application Fee is non-refundable once the Declaration of Intent is submitted to the WEELABEX organisation. Further details are available from the WEELABEX office. The Application Fee is not charged in case of a consecutive conformity verification process.

A registration fee shall be paid by the operator for each of the *WEEE* streams (being the subject of the conformity verification process) prior to be certified as a WEEELABEX Operator and annually thereafter. The Registration Fee is non-refundable once the operator is certified.

The currently applicable fees may be found on the WEEELABEX website or from the WEEELABEX office.

5. Definitions

"Operator"

Means any treatment facility which accepts WEEE (household / non-household) and which performs Type 1 and / or Type 2 depollution / disassembly treatment activities or Type 3 advanced treatment, or preparation for re-use activities at that facility. In general, through-out this document and other WEELLABEX documents, the term "operator" means either "treatment operator", or "preparation for re-use operator" or a combination of the noted types.

"Treat"

<u>Excludes</u> those facilities which only undertake a basic process such as cutting off of the cable / plug. Depollution and / or some further disassembly needs to be carried out as a minimum.

² See 5. Definitions



re-use"

"Preparation for Preparation for re-use process covers checking, cleaning, or repairing recovery operations, by which products or components of products that have become waste are prepared so that they can be re-used without any other pre-processing.

"Waste broker"

A person or organisation who makes arrangements on behalf of others to handle, transport, dispose or recover controlled waste, but do not handle, transport or dispose or recover the waste themselves. A waste broker shares responsibility for the proper transfer of the waste with the holders before and after its transfer.

As they control what happens to the waste, waste brokers are legally responsible for the arrangement and so must ensure it is taken to a facility licensed to accept and treat / dispose of the waste being transferred.

They will be expected to use treatment operators who conform to the WEELLABEX requirements.

Waste brokers include waste dealers who acquire waste and sell it on.



Annex I

Eligible WEEELABEX treatment processes Type 1 Type 2 Type 3 Type 4 Manual Mecha-Advanced End-Manual processin Denical mechanica De-pollution treatment pollution pollution treatmen I treatment Additional Additional Removal of PCB and Removal of PCB and removal of treatment of hazardous Removal of Removal of Refining Α **Large Appliances** fractions and electrolyte capacitors component/s ubstances cables electrolyte motors components such as: such as: Plastics: Plastics: sorting/segre gation of BFRs sortina/seare gation of metal Removal of casing Removal of Removal of Removal of Material impurities sorting of plastics (if applicable) (metal. batteries cables batteries recovery plastics) different types of plastics like ABS, PS; Removal of Separation Removal of granulation Incineration mercury Removal of containing of ferrous circuit / Energy recovery motors fractions boards component Removal of Printed Printed Separation Removal of Removal of plastics <u>circuit</u> of nonelectric circuit Landfilling boards: boards: ferrous components boards BFR (if manual removal of fractions sorting of capacitors applicable) Removal or printed and/or Separation circuit destroy of of plastics boards blowing fractions based on various agent (VFC/VHC) Removal of qualities; shredding; from PU asbestos and insulation sorting of Fe and of other removed component s with fractions from non-Fe metals; electric asbesto Removal of boilers/heat ers – see preparation plastics containing BFR (if for the final Downsizing the refinery/sm WEEELAB applicable) Removal of EX statement <u>Capacitors</u> shredding Capacitors: sorting of LCD Removal of and various types 2016_003 for details segregation of metals of capacitors lamps (hazardous/n on-Removal of hazardous): fluids shredding (including oil form oil and removal of hazardous substances containing radiators) Mixed fractions fractions and and components: component s: additional Removal of capacitors component dismantling and/or shredding batteries containing refractory and and/or circuit subsequent boards and/or BFRs ceramic sorting/segr egation of fibres plastics (if metals applicable) plastics and other materials Removal of PU Mixed shredded Mixed shredded insulation fractions: additional fractions: removal of containing VFC/VHC sorting/seg circuit from egation of boards and/or BFRs electric metals. water boilers/heat plastics and other plastics (if applicable)

materials



В

Mixed equipment



Тур	e 1	Тур	e 2
Manual treatment	Manual De- pollution	Mecha- nical treatment	De- pollution
Removal of cables	Removal of PCB and electrolyte capacitors	Removal of motors	Removal of PCB and electrolyte capacitors
Removal of casing (metal, plastics)	Removal of batteries	Removal of cables	Removal of batteries
Removal of motors	Removal of mercury containing component s	Separation of ferrous fractions	Removal of circuit boards
Removal of electric components	Removal of circuit boards	Separation of non- ferrous fractions	Removal of plastics containing BFR
	Removal of toner cartridges	Separation of plastics fractions	
	Removal of asbestos and component s with asbestos	Separation of other fractions	
	Removal of plastics containing BFR	Downsizing	
	Removal of LCD		1
	Removal of lamps		
	Removal of radioactive substances		
	Removal of fluids (including oil form oil containing radiators)		
	Removal of component s containing refractory ceramic fibres		

e 1	Тур	e 2	Ту	pe 3	Type 4
Manual De- pollution	Mecha- nical treatment	De- pollution	Advanced mechanica I treatment	De-pollution	End- processin g
Removal of PCB and electrolyte capacitors	Removal of motors	Removal of PCB and electrolyte capacitors	Additional treatment of fractions and components such as:	Additional removal of hazardous component/s ubstances such as:	Refining
Removal of batteries	Removal of cables	Removal of batteries	Plastics: sorting/segre gation of metal impurities; sorting of different types of plastics like	Plastics: sorting/segre gation of BFRs plastics	Material recovery
Removal of mercury containing component s	Separation of ferrous fractions	Removal of circuit boards	ABS, PS; granulation		Incineration / Energy recovery
Removal of circuit boards	Separation of non- ferrous fractions	Removal of plastics containing BFR	Printed circuit boards: manual sorting of	Printed circuit boards: removal of capacitors	Landfilling
Removal of toner cartridges	Separation of plastics fractions		printed circuit boards based on	and/or batteries	
Removal of asbestos and component s with asbestos	Separation of other fractions		various qualities; shredding; sorting of Fe and non-Fe metals		

metals; preparation for the final refinery/sm

elting Capacitors:

shredding and segregation of metals

Mixed fractions and component

s: additional dismantling/

shredding

and subsequent sorting/segr egation of

metals,
plastics and
other
materials

Mixed

shredded fractions: additional

sorting/segr egation of metals, plastics and other

materials
Toner
cartridges:

preparation for re-use or shredding and Capacitors: sorting of various types

of capacitors (hazardous/n onhazardous); shredding and removal of hazardous substances

Mixed fractions and

components: removal of

capacitors and/or batteries

and/or circuit boards and/or BFRs plastics

Mixed shredded fractions: removal of

circuit boards and/or BFRs

plastics

Toner cartridges: removal of hazardous

substances



C Temperature exchange equipment



Type 1		Тур	ne 2	
Manual treatment	Manual De- pollution	Mecha- nical treatment	De- pollution	i i
Removal of cables	Removal of oil from the cooling circuit	Removal of cables	Removal of blowing agent (VFC/VHC) from PU insulation	ti fr c
Removal of interior parts (containers etc.)	Removal of VFC/VHC from the cooling circuit	Separation of ferrous fractions	Removal of PU foam from output fractions	s i
Removal of casing (metal, plastics, glass)	Removal of PCB and electrolyte capacitors	Separation of non- ferrous fractions	Removal of plastics containing BFR (if applicable)	r
Removal of compressors	Removal of mercury containing component s	Separation of plastics fractions		5
	Removal of circuit boards	Separation of PU fractions		t
	Removal of LCD	Separation of other fractions		9
	Removal of lamps	Downsizing		
	Removal of lamps			<u>(</u>
	Removal of oil from the oil containing radiators			
	Removal of PU insulation containing VFC/VHC from electric water			s
	boilers/heat ers Removal of NH3 from ammonia appliances			

Туј	pe 3	Type 4
Advanced mechanica I treatment	De-pollution	End- processin g
Additional reatment of actions and omponents such as:	Additional removal of hazardous component/s ubstances such as:	Refining
VFC/VHC liquified gasses: preparation steps before incineration or chemical de- composition	VFC/VHC liquified gasses: avoid leakage and emissions of VFC/VHC gasses	Material recovery
e.g. ng/segre ation; ng; spill m one ainer to ner one, etc.)		Incineration / Energy recovery
Plastics: orting/segr egation of metal mpurities; sorting of	Plastics: sorting/segre gation of BFRs plastics (if	Landfilling
ferent bes of tics like S, PS; nulation	applicable)	
Capacitors: shredding and	Capacitors: sorting of various types	
egregation of metals	of capacitors (hazardous/n on- hazardous); shredding and removal of hazardous substances	
Mixed shredded fractions: additional sorting/segr egation of	Mixed shredded fractions: removal of circuit boards	
metals, plastics and other materials	and/or BFRs plastics (if applicable)	



D CRT display appliances



Тур	e 1
Manual treatment	Manual De- pollution
Removal of cables	Removal of PCB and electrolyte capacitors
Removal of casing (metal, plastics)	Removal of plastics containing BFR
Removal of electron gun	Removal of circuit boards
Removal of shadow mask	

Тур	pe 2		Ту	pe 3	Type 4
Mecha- nical treatment	De- pollution		Advanced mechanica I treatment	De-pollution	End- processin g
Removal of cables	Removal of PCB and electrolyte capacitors		Additional treatment of fractions and component s such as:	Additional removal of hazardous component/s ubstances such as:	Refining
Separation of ferrous fractions	Removal of plastics containing BFR		CRT glass: advanced mechanical treatment of CRT glass (e.g. preparation of the glass for final use	CRT glass: advanced mechanical removal of fluorescent coating from fractions (WEEELAB EX	Material recovery
Separation of non- ferrous fractions	Removal of circuit boards		(e.g. mixing, advanced cleaning,	Statement 2014_002)	Incineration / Energy recovery
Separation of plastics fractions	Manual or mechanical separation of funnel and panel glass		size reduction, etc.)	CRT glass: advanced sorting of panel and funnel glass	Landfilling
Separation of other fractions	Manual or mechanical removal of fluorescent coating		Plastics: sorting/segr egation of metal impurities; sorting of different types of plastics like ABS, PS; granulation	Plastics: sorting/segre gation of BFRs plastics (if applicable)	
Downsizing		•	Printed circuit boards: manual sorting of printed circuit boards based on various qualities; shredding; sorting of Fe and non-Fe metals; preparation for the final refinery/sm elting	Printed circuit boards: removal of capacitors and/or batteries	
	I		Capacitors: shredding and segregatio n of metals	Capacitors: sorting of various types of capacitors (hazardous/ non- hazardous); shredding and removal of hazardous substances	
			Mixed fractions and component \$\frac{\circ}{s}\$ additional dismantling /shredding and subsequent sorting/segr egation of metals, plastics and other materials	Mixed fractions and components: removal of capacitors and/or batteries and/or circuit boards and/or BFRs plastics	
			Mixed shredded fractions: additional sorting/segr egation of metals, plastics and other materials	Mixed shredded fractions: removal of circuit boards and/or BFRs plastics	



E Flat panel display equipment



Type 1		Тур	e 2
Manual treatment	Manual De- pollution	Mecha- nical treatment	De- pollution
Removal of cables	Removal of circuit boards	Removal of cables	Removal of circuit boards
Removal of casing (metal, plastics)	Removal of LCD	Separation of ferrous fractions	Removal of plastics containing BFR
	Removal of CCFL	Separation of non- ferrous fractions	Separation of mercury
	Removal of plastics containing BFR	Separation of plastics fractions	
		Separation of other fractions	
		Downsizing	

Advanced	Do-nelluties	End-
mechanica I treatment	De-pollution	processin g
Additional treatment of fractions and component s such as:	Additional removal of hazardous component /substance s such as:	Refining
Plastics: sorting/segr egation of metal impurities; sorting of different types of plastics like	Plastics: sorting/segr egation of BFRs plastics	Material recovery
ABS, PS; granulation		Incineration / Energy recovery
Printed circuit boards: manual sorting of printed circuit boards	Printed circuit boards: removal of capacitors and/or batteries	Landfilling
based on various qualities; shredding; sorting of Fe and non-Fe metals;		
preparation for the final refinery/sm elting		
Capacitors: shredding	Capacitors: sorting of	
and segregatio	various types of	
n of metals	capacitors (hazardous	
	`/non-	
	hazardous) ; shredding	
	and removal of hazardous	
	substances	
Mixed fractions	Mixed fractions	
and component	and component	
additional	removal of	
dismantling /shredding	capacitors and/or	
and subsequent	batteries and/or	
sorting/segr egation of	circuit boards	
metals, plastics	and/or BFRs	
and other materials	plastics	
Mixed	<u>Mixed</u>	
shredded fractions:	shredded fractions:	
additional sorting/segr	removal of circuit	
egation of	boards and/or	
metals, plastics	BFRs	
and other materials	plastics	

Type 4

Type 3



F

Gas discharge lamps

Type 1

Manual treatment

Manual pollution Type 2

nical treatment

fractions Separation

Separation of plastics fractions

of other fractions

Downsizing

Mecha-De-pollution Separation of ferrous Removal of fluorescent of non-Separation ferrous of mercury fractions

Type 3

Additional

treatment of fractions

and component

s such as:

Plastics: sorting/segr egation of metal

impurities; sorting of

different types of plastics like ABS, PS;

granulation

Capacitors: shredding

and

segregatio n of metals

Mixed shredded fractions:

additional sorting/segr

egation of metals, plastics and other

materials

Advanced mechanica I treatment De-pollution Additional

removal of hazardous

component /substance

s such as:

Plastics: sorting/segi

egation of BFRs

plastics

Capacitors sorting of

various

types of capacitors (hazardous

/nonhazardous) ; shredding and removal of

hazardous substances

Mixed shredded fractions: removal of

circuit boards and/or BFRs

plastics

processin

Refining

Type 4

End-

Material recovery

Incineration / Energy recovery

Landfilling



G Photovoltaic panels

Тур	e 1
Manual treatment	Manual De- pollution
Removal of cables	Removal of PCB and electrolyte capacitors
Removal of casing	Removal of batteries
Removal of electric components	Removal of circuit boards
Separation of ferrous fractions	Removal of plastics containing BFR
Separation of non- ferrous fractions	Removal of fluids
Separation of other fractions	Separation of plastics fractions

Type 2				
Mecha- nical treatment	De- pollution			
Removal of metallic lead or lead solder	Removal of hazardous substances in the semicondu ctor layer, including contacts			
Removal of circuit boards	Removal of plastics containing BFR			
	Downsizing			

Туј	pe 3
Advanced mechanica I treatment	De-pollution
Additional treatment of fractions and components such as:	Additional removal of hazardous component/s ubstances such as:
Plastics: sorting/segre gation of metal impurities; sorting of different types of plastics like ABS, PS; granulation	Plastics: sorting/segre gation of BFRs plastics
Printed circuit boards: manual sorting of printed circuit boards based on various qualities; shredding; sorting of Fe and non-Fe metals; preparation for the final refinery/sm elting	Printed circuit boards: removal of capacitors and/or batteries
Canacitors: shredding and segregation of metals	Capacitors: sorting of various types of capacitors (hazardous/n on- hazardous); shredding and removal of hazardous substances
Mixed fractions and component s: additional dismantling/ shredding and subsequent sorting/segr egation of metals, plastics and other materials	Mixed fractions and components: removal of capacitors and/or batteries and/or circuit boards and/or BFRs plastics
Mixed shredded fractions: additional sorting/segr egation of metals, plastics and other materials	Mixed shredded fractions: removal of circuit boards and/or BFRs plastics

	Type 4
	End- processin g
	Refining
	Material recovery
	Incineration / Energy recovery
	Landfilling
ļ	



ANNEX II

Examples of operators:

Type 0	Type 1	Type 2	Type 3	Type 4
An operator who only manually removes the ferrous metal and motor and cables – no depollution is performed.	A facility that performs the step 1 degassing of cooling and freezing equipment and who then passes the degassed unit to a	A facility that receives partially or fully depolluted large household appliances, which he processes through his	A facility that receives fractions or components that require further advanced treatment and/or de-pollution such as:	A recycling facility that receives fractions that require no further treatment.
	Type 2 operator who performs the step 2	mechanical system, separating the metals	Plastics:	e.g. a smelter who
They do not work within the framework of the WEEE Directive.	A facility that collects large household appliances and manually removes the cables and plugs; the	and plastics and aggregate fractions – he sends these fractions to either a type 3 operator (the plastics) or a type 4 end-processor.	sorting/segregation of metal impurities; sorting of different types of plastics like ABS, PS; granulation. De-pollution: sorting/segregation of	processes pure ferrous metals (less than 2% impurities); e.g. a facility that
	motor and the capacitors – he then sends the remaining	A facility that receives mixed non-ferrous	BFRs plastics. Printed circuit boards:	processes one- polymer type plastic into an end-of waste
	carcass and it is sent to a further WEEE facility for the mechanical treatment	fractions derived from WEEE pre-treatment sites and processes these in his	manual sorting of printed circuit boards based on various qualities; shredding;	product.
	(type 2). A facility that collects	mechanical plant to depollute and separate all of the	sorting of Fe and non- Fe metals; preparation for the final	e.g. a facility that processes cleaned CRT glass into an end-of waste product.
	large household appliances and manual strips and depollutes the whole appliance, sending the	fractions, remove the capacitors etc. , sending the resulting materials to a type 3	refinery/smelting. De-pollution: removal of capacitors and/or batteries.	ond of waste product.
	resulting materials to a type 2 or a type 3 operator for downsizing of fractions or further treatment	operator for downsizing of fractions or further treatment etc.	Capacitors: shredding and segregation of metals. De-pollution:	
	etc.	They may also send some fractions (pure ferrous) to a type 4	sorting of various types of capacitors (hazardous/non- hazardous); shredding and removal of	
	They may also send some fractions (pure ferrous) to a type 4	operator (or via brokers / intermediaries).	hazardous substances. Mixed fractions and	
	operator (or via brokers / intermediaries).	A facility that receives	components: additional dismantling/shredding and subsequent	
	A facility that collects / receives televisions and monitors and who	the whole CRT tubes from a type 1 operator and who processes	sorting/segregation of metals, plastics and other materials. De-pollution:	
	manually removes the CRT tube and plastics and other components, but who	them in his plant to manually split the panel and funnel glass and then clean the	removal of capacitors and/or batteries and/or circuit boards and/or BFRs plastics.	
	does not dismantle the CRT tube itself	glass (manually or mechanically)	Mixed shredded fractions: additional sorting/segregation of	
	A facility that collects / receives televisions and monitors and who manually removes the CRT tube and plastics	A facility that receives the whole or broken CRT tubes from a type 1 operator and who processes them in his	metals, plastics and other materials. De-pollution:	



and other components, and who then breaks the CRT tube (but does not remove the fluorescent coating).

A facility that collects / receives flat panel displays (televisions and monitors and laptop screens) and who manually removes the backlight lamps and plastics and other components but does not treat these components

A facility that collects / receives flat panel displays (televisions and monitors and laptop screens) and who manually removes circuit boards and capacitors but who does not extract the backlight lamps

A facility that manually disassembles ICT equipment to remove the value materials and cables - no depollution is performed – they then send the remaining materials to a type 3 operator.

plant to mechanically clean the glass before using as an aggregate product.

A facility that performs the step 2 treatment of cooling and freezing equipment to capture the blowing agent from the PUR foam.

A facility that collects / receives flat panel displays (televisions and monitors) and who mechanically processes them to remove the fluorescent and mercury.

A facility that receives flat panel displays without plastics and other components but with backlight lamps and which process them manually to remove the backlight lamps (to send to another type 2 operator) or who mechanically processes the backlight lamps to remove the fluorescent and mercurv

removal of circuit boards and/or BFRs plastics.

Toner cartridges: preparation for re-use or shredding and separation of fractions. De-pollution: removal of hazardous substances.

CRT glass: advanced mechanical treatment of CRT glass (e.g. preparation of the glass for final use (e.g. mixing, advanced cleaning, size reduction, etc.) De-pollution: advanced mechanical removal of fluorescent coating from fractions (WEEELABEX Statement 2014_002); advanced sorting of panel and funnel glass.

VFC/VHC liquified gasses: preparation steps before incineration or chemical decomposition (e.g. sorting/segregation; mixing; spill from one container to another one, etc.) De-pollution: avoid leakage and emissions of VFC/VHC gasses during this process.

re-use

Preparation for Preparation for re-use process covers checking, cleaning, or repairing recovery operations, by which products or components of products that have become waste are prepared so that they can be re-used without any other pre-processing.

Note: An operator may be a **combination of the above types** - For example:

- 1) A facility that collects / receives waste cooling and freezing appliances, and who performs the step 1 (degassing) and step 2 (removal of the PU foam and capture of the blowing agent) processes all at the same site would be considered to be a Type 1 and Type 2 combined operator; or
- 2) A facility that collects / receives small appliances, and performs Type 1 manual depollution, then Type 2 mechanical treatment of de-polluted appliances, and then Type 3 advanced mechanical treatment of shredded fraction (e.g. separation of fractions) and/or Type 3 treatment of plastics (e.g. sorting/segregation of metal impurities; sorting of



- different types of plastics like ABS, PS; granulation and sorting/segregation of BFRs plastics) processes all at the same site would be considered to be a Type 1 and Type 2 and Type 3 combined operator.
- 3) A facility that collects / receives WEEE and performs re-use activities and also performs the Type1/Type2/Type3 treatment processes would be considered to be a Type 1 and Type 2 and Type 3 and Re-use combined operator.



ANNEX III

An overview of the downstream documentation required according to the Clause 2.4:

The table below summarises all the information required on fractions for the purpose of downstream monitoring and establishment of recycling and recovery rates. The information recorded shall give a just account of day-to-day business and all outlets used. It will therefore be applicable to both batch and annual data.

Table - Summary of information requirements:

Fractions that have reached end-of-waste status Metal fractions which contain less than 2 % of non-metal fractions Non-metal fractions containing less than 2 % of other materials Fractions which are classified as hazardous according to the European list of wastes and/or fractions containing materials and components covered by Annex F of EN 50625-1 (iii) (iiii) (iii) (iii) (iiii) (iii) (iiii) (iiii) (iiii) (iiii) (iiiii) (iiiii) (iiiiiiii	Information Required for Downstream Monitoring and Establishment of Recycling & Recovery rates:	Mass	Composition	Classification of final use of fractions	Final Treatment Technology(ies)	Information on First Acceptor	Information on Downstream Acceptor(s), including Final Acceptor
2 % of non-metal fractions (iii) (ii) (iii) (iii) Non-metal fractions containing less than 2 % of other materials (iii) (iii) (iii) (iii) (iii) (iii) Fractions which are classified as hazardous according to the European list of wastes and/or fractions containing materials and components covered by			(iii)		(ii)		
2 % of other materials (III) (III)		(iii)	(ii)	(ii)	(ii)		
hazardous according to the European list of wastes and/or fractions containing materials and components covered by (iii) (iii) (iii) (iii) (iii)		(iii)	(ii)	(ii)	(iii)	(i)	
	hazardous according to the European list of wastes and/or fractions containing materials and components covered by	(iii)	(ii)	(ii)	(iii)	(iii)	(i)
Final fractions being forwarded for energy recovery or disposal (ii) (ii) (iii)	1	(ii)		(ii)	(i)		(iii)
All other fractions (iii) (iii) (iii) (iii)	All other fractions	(iii)	(iii)	(ii)	(iii)	(iii)	

Key

- (i) Requirement specified in 4.4 of the standard EN 50625-1
- (ii) Requirement specified in Annex C of the standard EN 50625-1
- (iii) Requirement specified in both 4.4 and Annex C of the standard EN 50625-1



Specifically, the documents/records shall contain following information for specific fractions:

Fractions which are classified as hazardous and/or capacitors, accumulators, batteries:

- data on the mass of the whole WEEE or output fraction,
- information on the first acceptor,
- information on the downstream acceptor(s) of the fraction,
- the final treatment technology,
- authorisation of the final acceptor(s).

Final fractions being forwarded for energy recovery or disposal:

- the final treatment technology,
- information on the downstream acceptor(s) of the fraction,
- composition of the fractions.

Fractions that have reached end-of-waste status:

- data on the mass of the output fraction,
- data on the composition of the fraction,
- intended technology.

Metal fractions which contain less than 2 % of non-metal fractions:

- data on the mass of the output fraction,
- the type of treatment technology (it may be estimated).

Non-metal fractions containing less than 2 % of other materials:

- data on the mass of the output fraction,
- information on the first acceptor,
- the final treatment technology (it may be declared by the first acceptor).
- classification of final use (recycling and recovery rate) of the fraction in the treatment technology (it may be estimated based on the final treatment technology).

All other fractions:

- the mass of the output fraction,
- information on the first acceptor,
- composition of the fractions (it may be declared by the first acceptor),
- final treatment technology (it may be declared by the first acceptor),
- classification of final use (recycling and recovery rate) of the fraction in the treatment technology (it may be estimated based on the final treatment technology).