

WEELABEX Organisation - OFFICIAL STATEMENT	
Issue ID:	2024_001
Issue Category:	Sorting and depollution
Issue Name:	Requirements for different treatment process of FPD with backlight fluorescent lamps containing mercury and FPD containing LED backlight
Issue Description:	<p>Some flat panel displays (FPDs) contain fluorescent backlights that contain mercury, which is hazardous, while other FPDs contain only LED backlights, which are not hazardous.</p> <p>Is it allowed to separate these two types of FPDs and treat them differently? Specifically:</p> <ul style="list-style-type: none"> - FPDs with fluorescent backlights containing mercury to be treated and depolluted manually and/or mechanically in a specialised technology; - FPDs with LED backlights to be treated manually and/or mechanically in a conventional shredder without any mercury depollution process. <p>What are the specific requirements for sorting and depollution?</p>
WEELABEX Organisation Statement	<p>It is allowed to separate those two types of FPDs (FPD with backlight fluorescent lamps containing mercury and FPD containing LED backlight and treat them in different way. The following requirements shall apply:</p> <p>Sorting:</p> <ul style="list-style-type: none"> • there must be a very clear and comprehensive procedure and documented work instruction on how to sort these two types of FPDs (e.g. based on labelling); • a precautional principal shall apply (in any doubts in the sorting process, the FPD shall be considered as “mercury suspect”). <p>Depollution and depollution monitoring :</p> <ul style="list-style-type: none"> • the following depollution monitoring requirements shall apply for processing of FPD containing LED backlight: <ul style="list-style-type: none"> - regular visual checks in order to identify any presence of backlight fluorescent lamps in output fractions (for manual dismantling and for mechanical treatment); - sampling and analysing of physically smallest shredded mixed fraction to identify any presence of mercury (for mechanical treatment): <ul style="list-style-type: none"> - at least once per year; - limit value for Hg = 0,5 mg/kg (dry matter); - the sampling and analysis procedure shall follow the CLC/TS 50625-3-3, clause 8.5 and Annex AA.2.5

	<p>- liquid crystal displays shall be removed as an identifiable (part of a) stream during the treatment process for manual dismantling and for mechanical treatment.</p> <p>Examples of how to recognize FPDs with fluorescent backlights containing mercury are shown in the attachment.</p>
Date of Issue / Date of revision:	01st August 2024 / 0
Come into effect:	For each on-going and new Conformity Verification process
Status of the Statement:	Final Statement - defrev_01

Attachment: Examples of how to recognize FPDs with fluorescent backlights containing mercury

Label containing information concerning „Hg“ or „Lamps contains mercury“



The Hg logo on the ID label is aimed to ease the process of manual segregation at collection and treatment plants between CCFL(contain Hg) and non CCFL based TVs.



Lamps containing mercury inside a TV



Lamps containing mercury inside a monitor (note that the lamps are only located at the top and bottom of a display)

