



US Army Corps of Engineers

HTRW Center of Expertise Information - Fact Sheets

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HTRW Center of Expertise Fact Sheet FY 06-07

Title: Hazardous Waste Management System; Modification of the Hazardous Waste Program; Cathode Ray Tubes		Date: July 28, 2006
SARS RIN #: 2050-AE-52	Action Type: Final rule	Cite: 71 FR 42928

Applicability: This affects persons managing used cathode ray tubes (CRTs) and glass from CRTs including collectors, exporters, and processors. However, exclusions made available by this rule, may not be available in RCRA authorized states unless the state opts to adopt similar regulations.

Summary: CRTs often exhibit a hazardous waste characteristic due to lead in CRT glass. This rule provides conditional exclusions for CRTs and CRT glass. A CRT is a vacuum tube, composed primarily of glass, which is the visual or video display component of an electronic device such as a television, computer monitor, oscilloscope, etc. This rule conditionally excludes used, intact CRTs; used, broken CRTs; and glass removed from CRTs. No exclusion is necessary for unused CRTs since these are products not subject to RCRA in the first place. In addition, the rule also addresses processing of CRTs and exporting of CRTs for reuse and for recycling.

Solid Waste Exclusion for Used, Intact CRTs

A used, intact CRT means a CRT whose vacuum has not been released.

- Used, intact CRTs within the United States are not solid waste unless they are disposed, or unless they are accumulated speculatively by CRT collectors or glass processors. A CRT collector is defined as "a person who received used, intact CRTs for recycling, repair, resale, or donation". See 40 CFR 261.1(c)(8) for the definition of "accumulated speculatively".
- When exported from the United States for recycling, used, intact CRTs are excluded from the definition of solid waste provided they are not speculatively accumulated; the Environmental Protection Agency is notified of the intent to export; and the receiving country consents to the export.

Solid Waste Exclusion for Used, Broken CRTs

A used, broken CRT refers to glass removed from its housing or casing whose vacuum has been released.

Prior to processing, used, broken CRTs destined for recycling are excluded from the definition of solid waste if the following conditions are met:

- Broken, CRTs must be stored in a building or placed in a closed container to minimize releases.
- Containers must be labeled "Used cathode ray tube(s) - contains leaded glass" or "Leaded glass from television or computers" and must be labeled "Do not mix with other

glass materials".

- When transported, broken CRTs must be in labeled, closed containers that minimize releases to the environment.
- The broken CRTs can not be speculatively accumulated.
- The broken CRTs used in a manner constituting disposal must comply with 40 CFR 266.
- For exports, EPA must be notified of the intent to export, and CRTs can not be exported without consent of the receiving country. A copy of the Acknowledgement of Consent to Export CRTs must accompany the shipment, and the exporter must maintain records for three years.

Glass Removed From CRTs

Glass removed from CRTs is conditionally excluded from the definition of solid waste provided:

- It is destined for recycling at a CRT glass manufacturer or a lead smelter.
- It is not speculatively accumulated.

Exclusion for Used CRT Processing

CRT processing means conducting *all* of the following:

(1) receiving broken or intact CRTs and (2) intentionally breaking intact CRTs or further breaking or separating broken CRTs and (3) sorting or otherwise managing glass removed from CRT monitors. (Merely breaking the CRT does not constitute processing, all of the above must be conducted to be considered CRT processing.)

Used, broken CRTs undergoing processing are excluded from regulation provided they meet the following conditions:

- During storage, broken CRTs can not be stored in a manner constituting disposal (in other words, on the land) or accumulated speculatively.
- During processing, breaking, separating, sorting or otherwise managing glass removed from CRTs, activities must occur in a building and can not be performed at temperatures which would volatilize lead.

Export of Used, Intact CRTs for Reuse

Persons who export used, intact CRTs for reuse must send a one-time notice to EPA and keep records demonstrating that each shipment of exported CRTs will be reused.

POC: Beverly VanCleef, USACE HTRW CX, 402 697 2559, or by email at Beverly.D.VanCleef@USACE.Army.mil

Reference:

<http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/06-6490.pdf>