



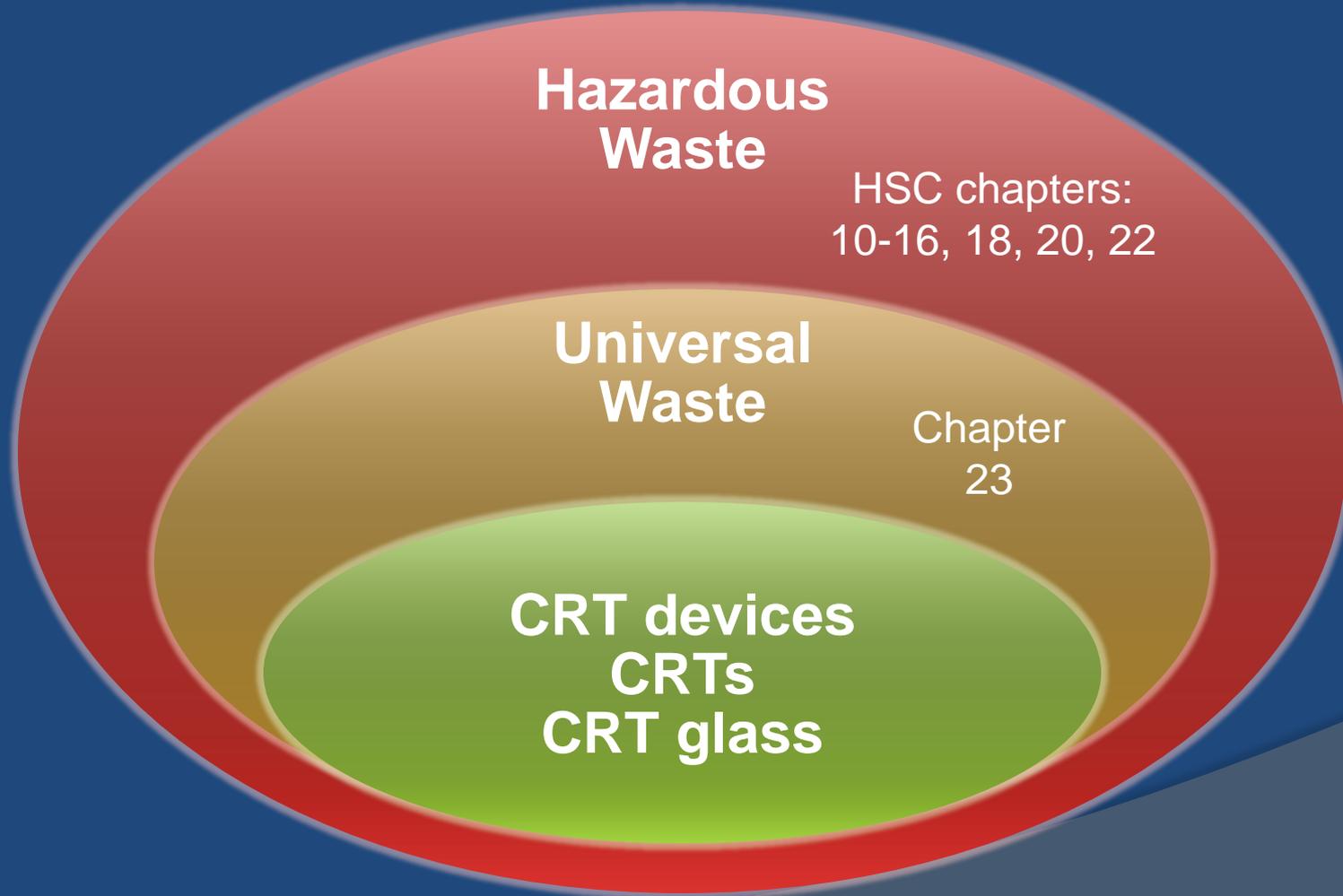
Department of
Toxic Substances
Control

GENERAL OVERVIEW AND STATUS FOR MANAGING “CATHODE RAY TUBE” CRTs AND CRT GLASS



Presented by Teresa Rizzardo
Policy & Program Support Division
DTSC Stakeholder Meeting
September 7, 2016

CRTs and CRT Glass are Hazardous



Regulatory Background



August 2001- emergency regulations designate “CRT materials” and “Consumer electronic devices” as Universal Waste

June 2004 - DTSC adopts emergency regulations, *alternative management standards (AMS)*, to implement SB 20, the Electronic Waste Recycling Act (EWRA)

In 2009 final Consolidated Universal Waste Regulations and Authorized Treatment of Electronic Hazardous Waste was adopted

Emergency Regulations

Expanded Disposition Options

CRTs and CRT Glass

October 15, 2012

Emergency regulations
were implemented for 2
years

September 15, 2014

Emergency regulations
were re-adopted for
additional 2 years

Emergency Regulations Allow Path for Other Recycling

Allowed exit from Chapter 23 Universal Waste Standards to pursue recycling other than CRT glass manufacturing or lead smelting

Under Full Hazardous Waste
Seek exclusion under the Excluded
Recyclable Material provision



Emergency Regulations Allow Disposal



- Class I – fully regulated HW disposal for CRTs /CRT glass
- Class II or III - Conditional Exclusion from HW standards for Non-RCRA, panel glass

Purpose of Emergency Regulations

- Provide CRT recyclers a path to alternative recycling options via the Excluded Recyclable Materials provision
- Relieve pressure on CRT recyclers by allowing them to safely dispose of CRTs and CRT glass, as a last resort
- Provide DTSC with sufficient information to evaluate recycling methods for final regulations



Product Options

- Tiles
- Fiberglass
- Automotive glass
- Reflective glass beads
- Radiation shielding glass
- Foam glass insulation



Decorative glass
Bricks
Cast concrete
Blasting media
Construction block



Viabile Recycling Option?

- ⦿ Does the recycling process have capacity for significant quantities?
- ⦿ Is a marketable product produced from recycling?
- ⦿ What risks are posed by the recycling process?



Questions/Comments

CRT_Regs@dtsc.ca.gov



Thank you