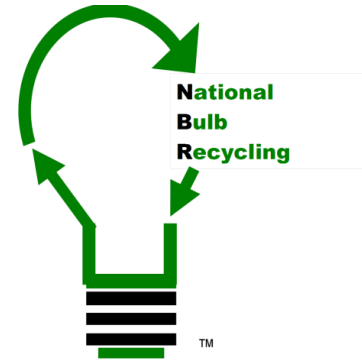




Recycling Fluorescent Bulbs and Ballasts



Preserving Resources,
Preventing Waste



Presented by: Joseph Puro
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Contents

- NBR Overview
- Universal Waste – Lamps and Ballasts
- Hazards
- Recycling methods
- Regulatory Landscape
- NBR – Focus on Service

Universal Waste - Lamps

- Fluorescents
 - Tubes: Straight Circular and U-Bend
 - Compacts fluorescent
- Metal Halide, Biacx, High Intensity, Bi Metal
 - Flood
 - Incandescent
 - Halogen
- HID (High Pressure Sodium)
- UV Lamps
- Shatter shield or coated Lamps



Universal Waste - Ballasts

- PCB Containing Ballasts
- Non-PCB Containing Ballasts

Environmental Hazards



Pre-Disposal Storage

- Lamps

Improper



Proper

- Ballasts

Improper



Proper

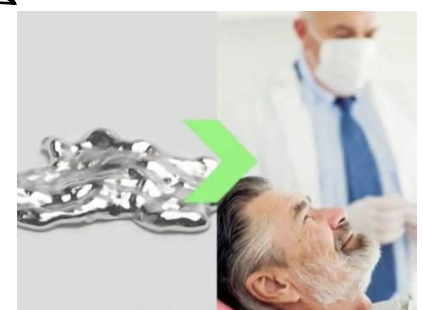
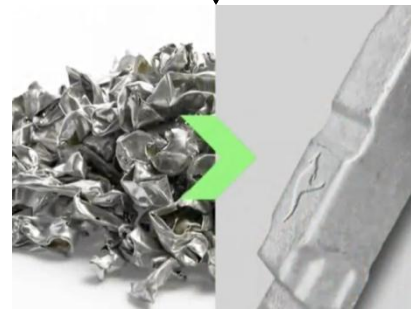


Recycling of UW Lamps

LAMP RECYCLING PROCESS FLOW



Recycling of UW Lamps

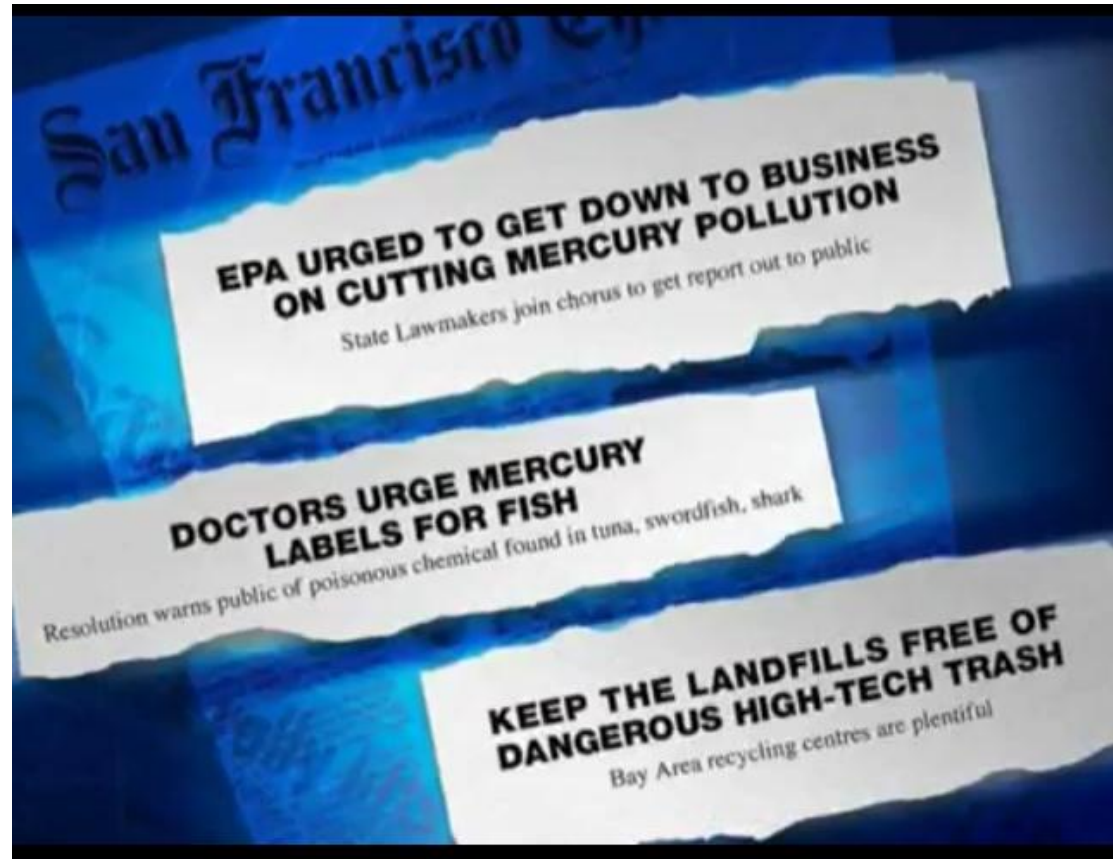


Recycling of UW Ballasts



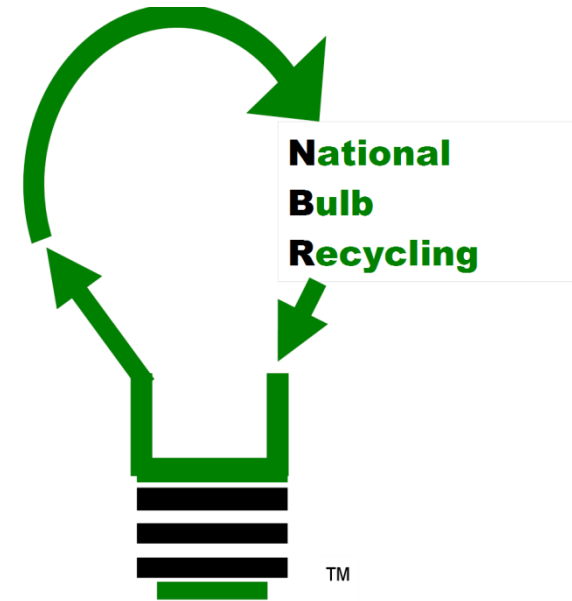
Regulatory Landscape

- Federal
- State
- Local



NBR Focus on Service

- Large generator pick-up service
- Small generator container service
- Certified recycling centers
- Certificate and annual log



Q&A



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