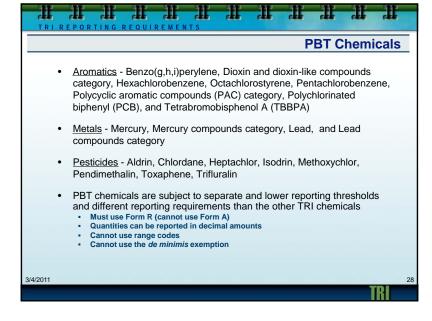


## **EPA Small Business Compliance Policy** Similar to Audit Policy, but available only to small businesses Small businesses employ 100 or fewer individuals across all facilities and operations Small businesses that meet all 4 conditions of the policy may have 100% of the gravity based penalty waived. However, EPA reserves the option to collect any significant economic benefit which may have been realized by the facility. Conditions to qualify (four criteria): Good Compliance Record Voluntary Discovery Prompt Disclosure Correction and Remediation For more information, including a copy of the Small Business Compliance Policy and a Q&A document, visit: http://www.epa.gov/compliance/incentives/smallbusiness/index.html 3/4/2011

# Audit Policy: Incentive for New Owners • Federal Register notice published August 2008 • Offers incentives for new owners of facilities that want to make a "clean start" by addressing environmental noncompliance that began prior to acquisition. • Penalty mitigation beyond what the Audit Policy generally provides • Modification of certain Audit Policy conditions • For a detailed description of how EPA will apply the Audit Policy to new owners of regulated facilities, visit: http://www.epa.gov/compliance/incentives/auditing/newowners-incentives.html



# EPCRA Section 313 Enforcement • Non-federal facilities (including GOCOs) violating any statutory or regulatory requirement are subject to penalties of up to \$37,500 per day per violation (periodically adjusted for inflation) • Companies subject to citizen suits and could also be liable for attorney fees and litigation costs (EPCRA § 326(f)) • Government's penalty is determined by applying the Enforcement Response Policy (ERP) to each violation • For EPA's EPCRA enforcement policies, visit: http://cfpub.epa.gov/compliance/resources/policies/civil/epcra/index.cfm





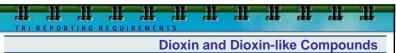
## **Dioxin and Dioxin-like Compounds**

- PBT activity threshold for dioxins = 0.1 gram manufactured, processed, or otherwise used for the entire reporting year!
- Dioxins formed as unwanted byproducts when chlorinated materials involved in combustion or other high-temperature processes, such as:
  - Fossil fuel and wood combustion
  - Waste incineration
  - Metallurgical processes
- What it takes to exceed the 0.1 gram activity threshold?
  - 64,500 tons of coal combusted in a utility boiler
  - . 8.33 million gallons of fuel oil combusted in a utility boiler
  - 1,230 tons copper scrap fed to a secondary copper smelter

3/4/2011

TRI .

## **Dioxin and Dioxin-like Compounds** Dioxin and Dioxin-like Compounds Toxicity Equivalency (TEQ) Information Rule: • Final rule issued May 10, 2007 (72 FR Page 26544), in effect since RY2008 In addition to the total mass grams released for the entire chemical category, facilities that have the data are required to report the quantity of each of the 17 members in the dioxin category on a Form R Schedule 1 . Speciated values reported in Schedule 1 must add up to values reported on the Form R Data is used to calculate TEQ values that is made available to the public along with the mass data TRI-MEweb can provide a report showing estimates converted into TEQ • In calculating TEQ, EPA uses Toxic Equivalency Factors (TEFs) developed by the World Health Organization in 2005 (http://www.who.int/ipcs/assessment/tef\_update/en/) Be aware that in RY2008 the order of the 17 members of the dioxin category changed on the Schedule 1 3/4/2011



- Dioxin and dioxin-like compounds are measured based on the individual compounds within the category – not as a total quantity.
- Emission factors for dioxin and dioxin-like compounds are based on emission factors for individual compounds within the category.
- As a result, the information required on Form R Schedule 1 should be available to facilities that file Form R reports for the dioxin and dioxin-like compounds category

PBT activity threshold = 0.1 gram manufacture, process, or otherwise use for the entire reporting year!

Dioxins formed as unwanted byproducts when chlorinated materials involved in combustion or other high-temperature processes, such as:

Fossil fuel and wood combustion

Waste incineration

Metallurgical processes

What it takes to exceed the 0.1 gram activity threshold?

64,500 tons of coal combusted in a utility boiler

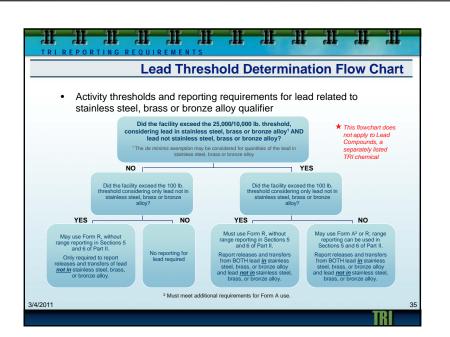
8.33 million gallons of fuel oil combusted in a utility boiler

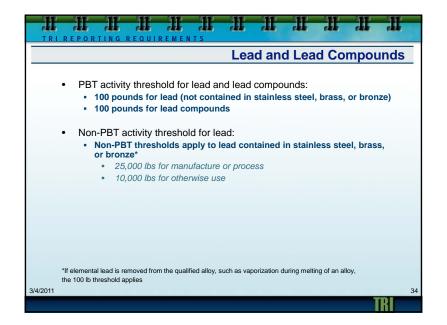
1,230 tons copper scrap fed to a secondary copper smelter

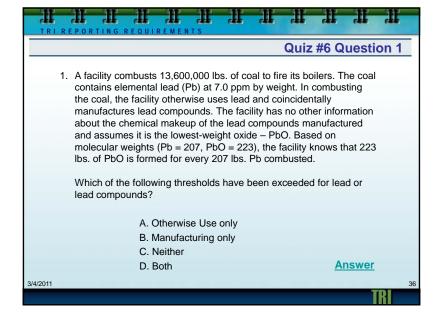
3/4/2011

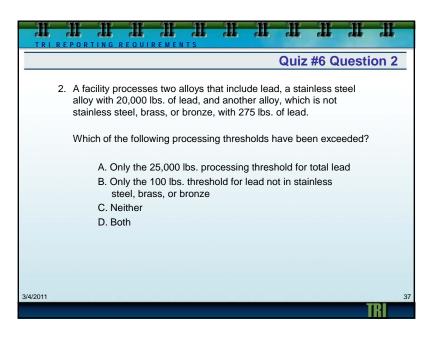
TRI

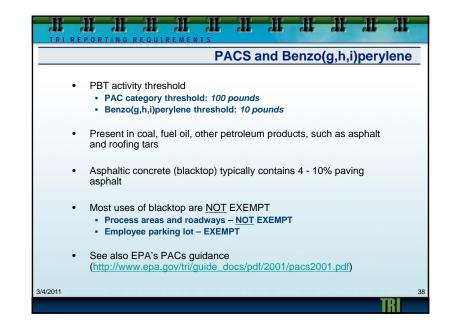


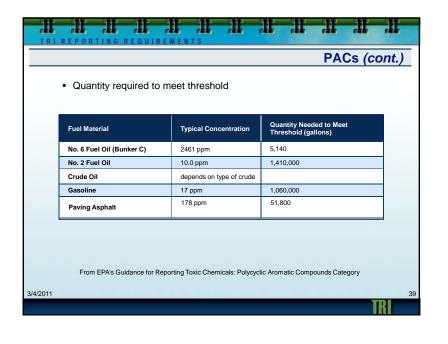


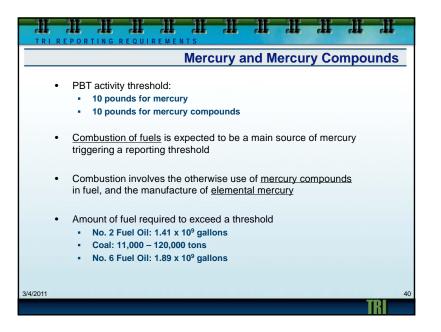


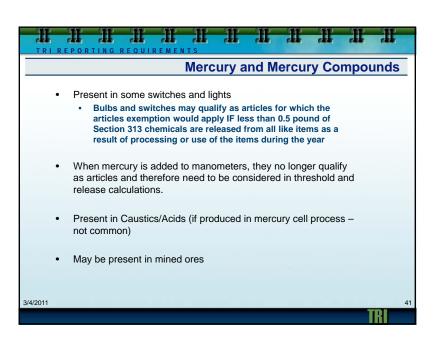


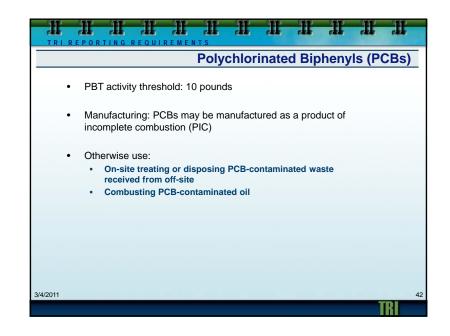


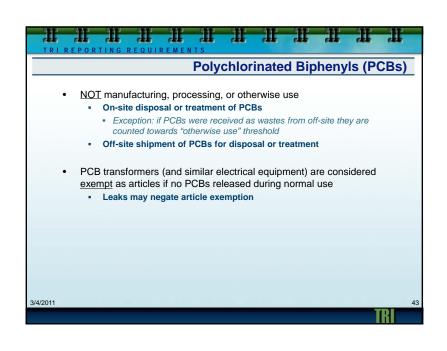




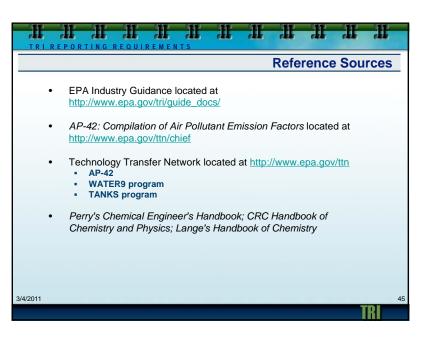


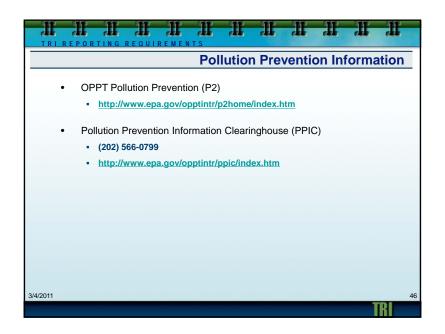


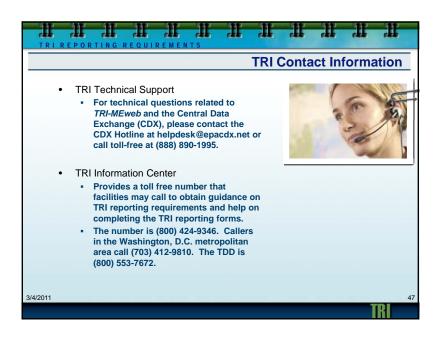


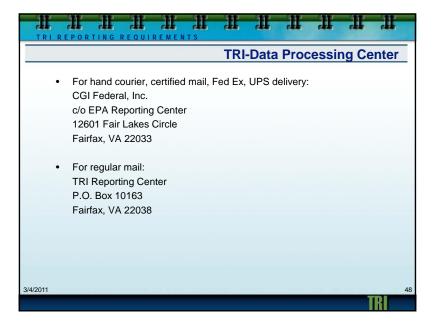


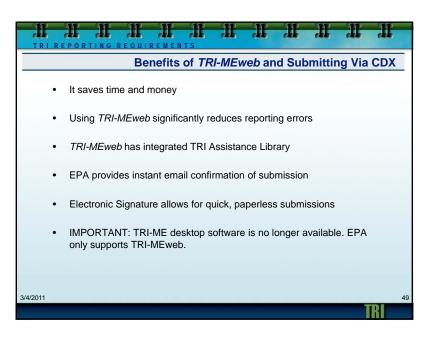


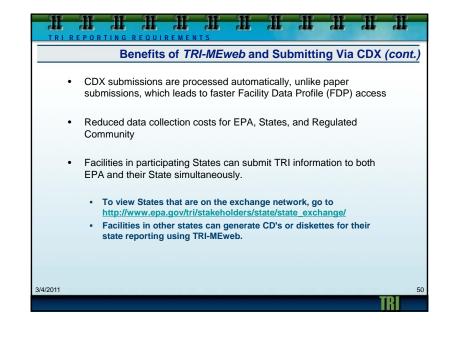






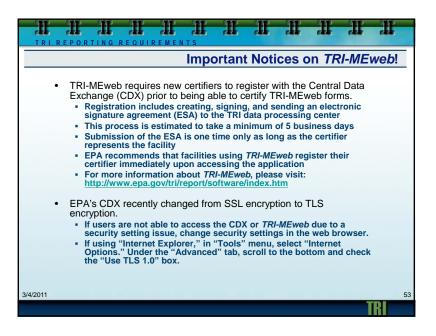


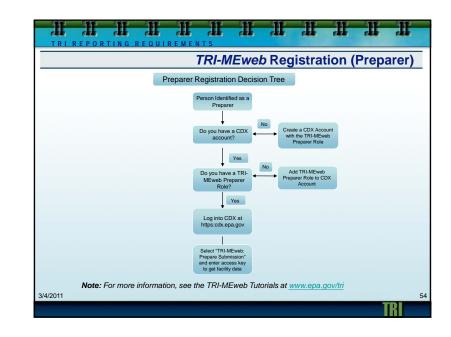


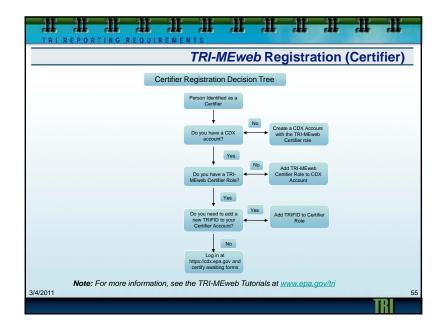




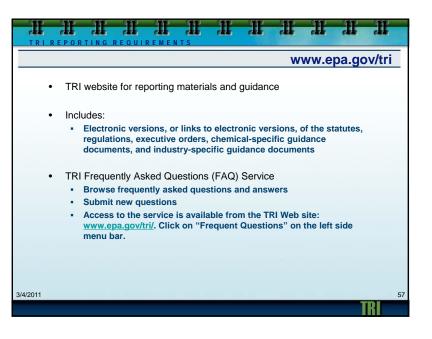
# TRI-MEweb New Features • Fully supports dioxin Form R/Schedule 1 reporting and provides calculated TEQ values for these forms • Fully supports "Reporting By Part" • Allows reporting for first-time filers and provides instant TRIFID identification for new facilities • Supports original and revised reporting for RY2005 – 2010 • Generates submission diskettes for state reporting • Ability to upload third party vendor data using TRI-MEweb XML schema to allow quicker multi-chemical data uploads.

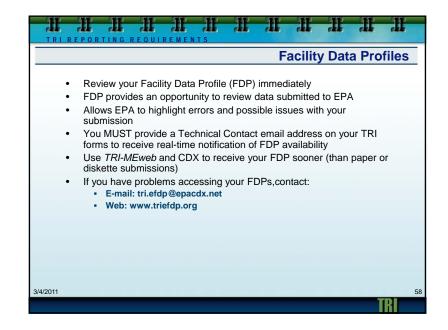


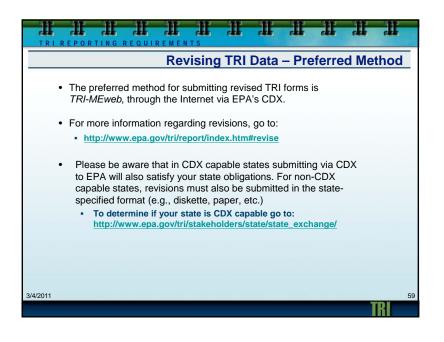


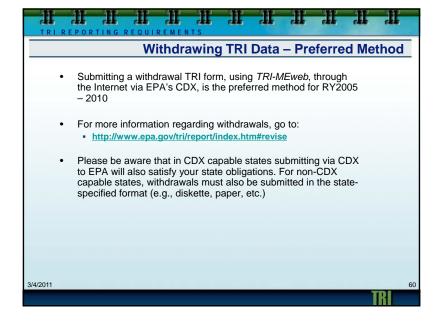


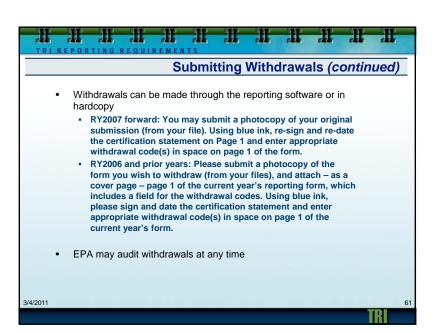


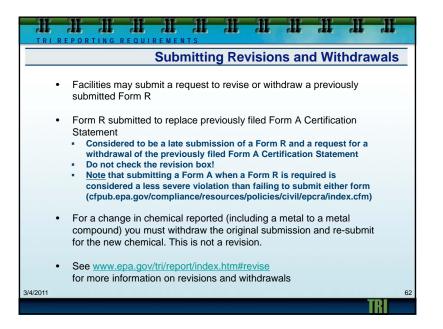


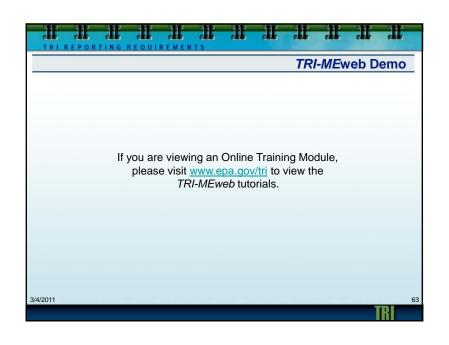


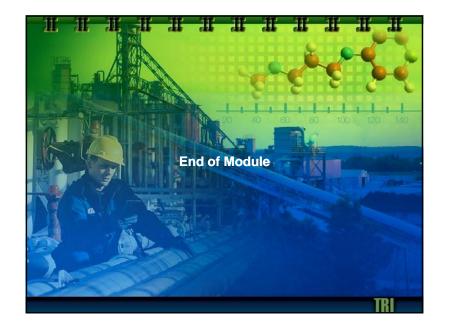


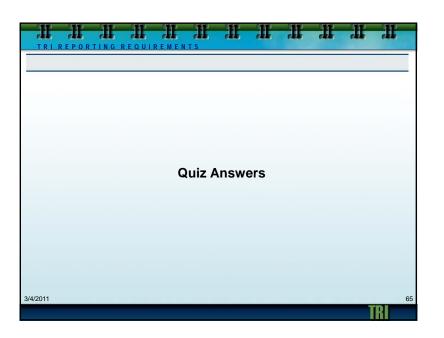


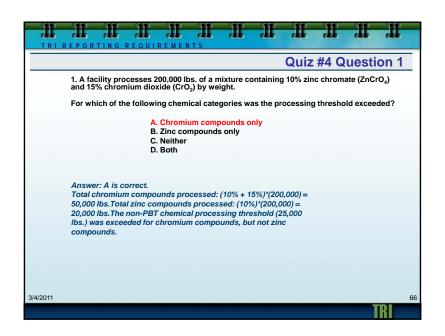


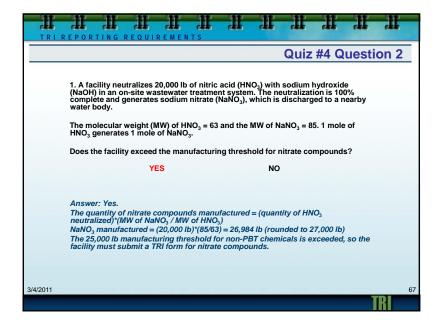


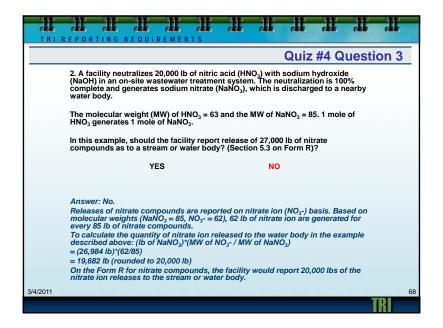














## Quiz #5 Question 1

1. A facility combusts 13,600,000 lbs. of coal to fire its boilers. The coal contains elemental lead (Pb) at 7.0 ppm by weight. In combusting the coal, the facility otherwise uses lead and coincidentally manufactures lead compounds. The facility has no other information about the chemical makeup of the lead compounds manufactured and assumes it is the lowest-weight oxide – PbO. Based on molecular weights (Pb = 207, PbO = 223), the facility knows that 223 lbs. of PbO is formed for every 207 lbs. Pb used.

Which of the following thresholds have been exceeded for lead or lead compounds?

A. Otherwise Use only

**B.** Manufacturing only

C. Neither

D. Both

Answer: B is correct.

Pb in coal:  $(13,600,000 \text{ lbs.})*(7 \times 10^{-6}) = 95.2 \text{ lbs.}$ 

Total lead combusted (95.2 lbs.) does not exceed the threshold for otherwise using lead not in stainless steel, brass, or bronze (100 lbs.).

PbO formed: (95.2 lbs.)\*(223/207) = 103 lbs. Since lead is expected to be present in coal in compound, you could consider that 103 lbs. of lead compounds was combusted and, therefore, otherwise used.

Total lead oxide combusted (103 lbs.) exceeds the threshold for manufacturing and otherwise use of lead compounds (100 lbs.)

3/4/2011

[RI

## Quiz #5 Question 2

A facility processes two alloys that include lead, a stainless steel alloy with 20,000 lbs. of lead, and another alloy, which is not stainless steel, brass, or bronze, with 275 lbs. of lead.

Which of the following processing thresholds have been exceeded?

A. Only the 25,000 lbs. processing threshold for total lead B. Only the 100 lbs. threshold for lead not in stainless

steel, brass, or bronze

C. Neither

D. Both

Answer: B is correct.

Total lead processed: 20,000 lbs. + 275 lbs. = 20,275 lbs.

Total lead processed not in stainless steel, brass, or bronze: 275 lbs.

Although the threshold for total lead (25,000 lbs.) was not exceeded, the threshold for lead not in stainless steel, brass, or bronze (100 lbs.) was exceeded.

3/4/2011

RI