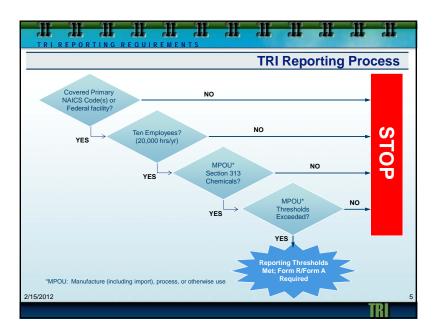


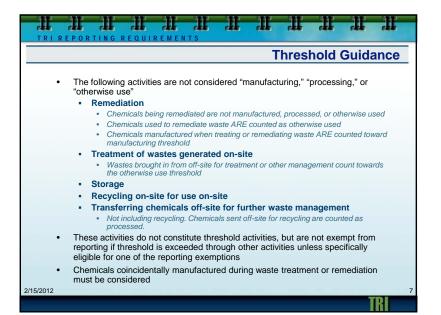


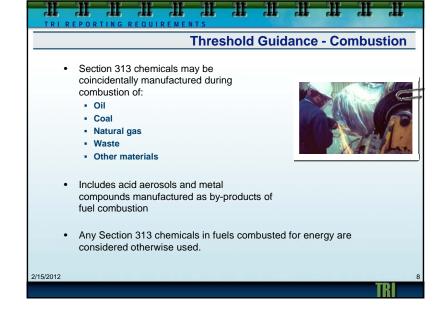


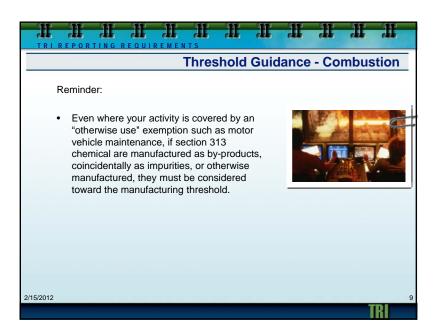
# TRI Program Changes for RY 2011 • Key program changes and changes to TRI reporting Form R are listed in the front of the Reporting Forms & Instructions, as well as in TRI-MEweb, and on EPA's TRI website. • RY2008 was the last year that software was offered. Only TRI-MEweb is offered this year.

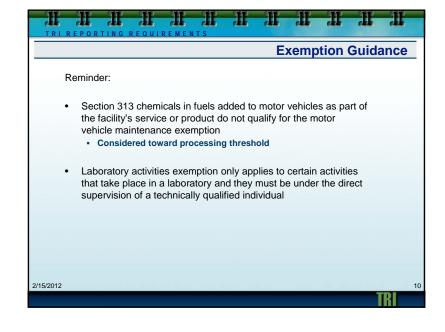


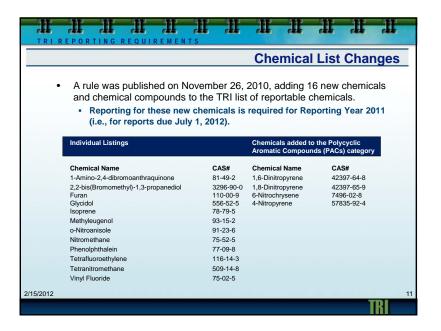


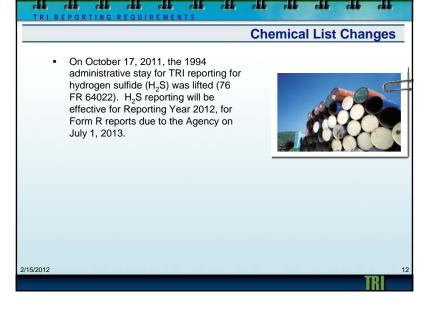


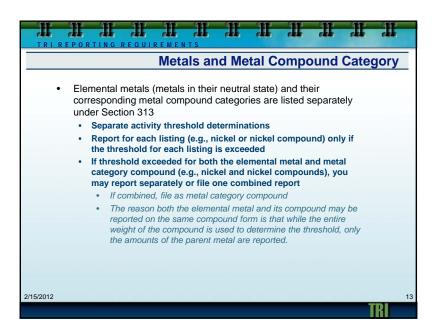


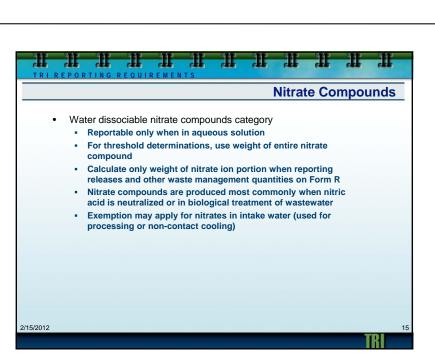




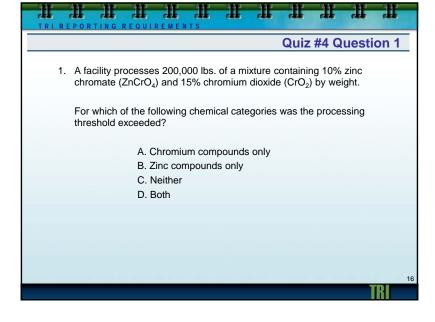


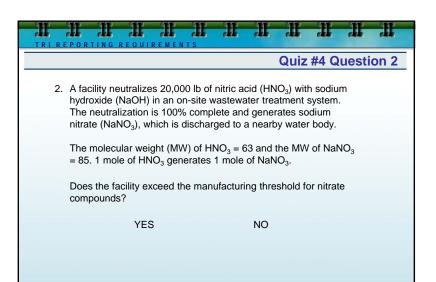


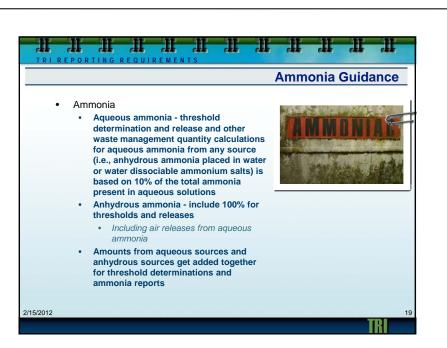




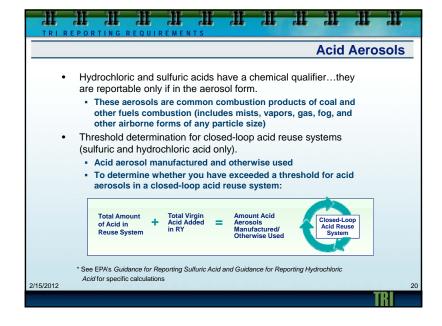


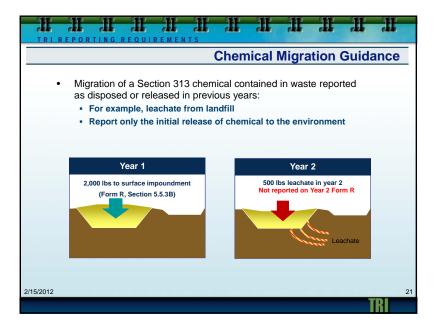


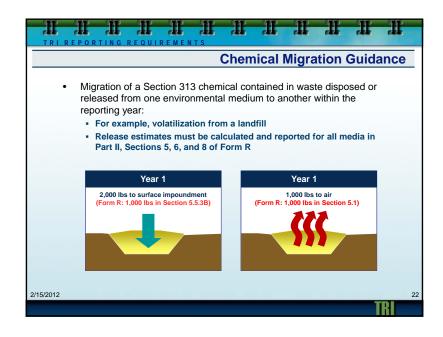


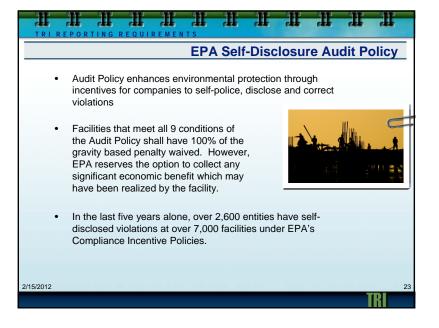


# Quiz #4 Question 3 3. A facility neutralizes 20,000 lb of nitric acid (HNO<sub>3</sub>) with sodium hydroxide (NaOH) in an on-site wastewater treatment system. The neutralization is 100% complete and generates sodium nitrate (NaNO<sub>3</sub>), which is discharged to a nearby water body. The molecular weight (MW) of HNO<sub>3</sub> = 63 and the MW of NaNO<sub>3</sub> = 85. 1 mole of HNO<sub>3</sub> generates 1 mole of NaNO<sub>3</sub>. In this example, should the facility report release of 27,000 lb of nitrate compounds as to a stream or water body? (Section 5.3 on Form R)? YES NO









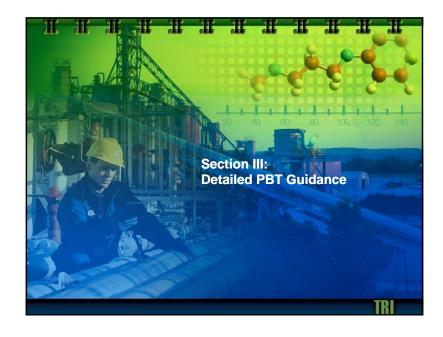


### EPA Small Business Compliance Policy Similar to Audit Policy, but available only to small businesses Small businesses employ 100 or fewer individuals across all facilities and operations Small businesses that meet all 4 conditions of the policy may have 100% of the gravity based penalty waived. However, 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: www.epa.gov/compliance/incentives/smallbusiness/index.html

2/15/2012

# 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 for Section 313 of EPCRA 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

# 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: www.epa.gov/compliance/incentives/auditing/newowners-incentives.html



### TRI REPORTING REQUIREMENTS PBT Chemicals

- Aromatics Benzo(g,h,i)perylene, Dioxin and dioxin-like compounds category, Hexachlorobenzene, Octachlorostyrene, Pentachlorobenzene, Polycyclic aromatic compounds (PAC) category, Polychlorinated biphenyl (PCB), and Tetrabromobisphenol A (TBBPA)
- Metals Mercury, Mercury compounds category, Lead, and Lead compounds category
- <u>Pesticides</u> Aldrin, Chlordane, Heptachlor, Isodrin, Methoxychlor, Pendimethalin, Toxaphene, Trifluralin
- PBT chemicals are subject to separate and lower reporting thresholds and different reporting requirements than the other TRI chemicals
  - Must use Form R (cannot use Form A)
  - Quantities can be reported in decimal amounts
  - Cannot use range codes
  - · Cannot use the de minimis exemption

changed on the Schedule 1

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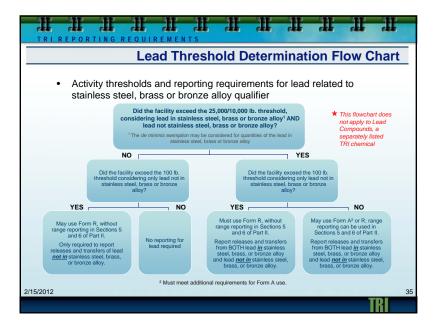


# Dioxin and Dioxin-like Compounds PBT activity threshold for dioxins = 0.1 gram manufactured, processed, or otherwise used for the entire reporting year! Dioxins formed as unwanted byproducts when chlorinated materials involved in combustion or other high-temperature processes, such as: Fossil fuel and wood combustion Waste incineration Metallurgical processes What it takes to exceed the 0.1 gram activity threshold? G4,500 tons of coal combusted in a utility boiler S33 million gallons of fuel oil combusted in a utility boiler 1,230 tons copper scrap fed to a secondary copper smelter

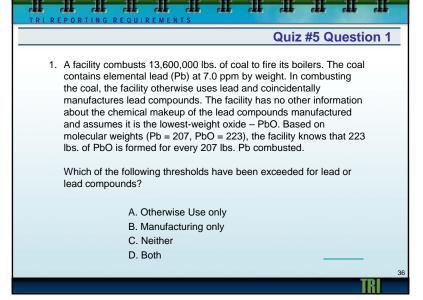
### **Dioxin and Dioxin-like Compounds** Dioxin and Dioxin-like Compounds Toxicity Equivalency (TEQ) Information Rule: Final rule issued May 10, 2007 (72 FR Page 26544), in effect since RY2008 In addition to the total mass grams released for the entire chemical category, facilities that have the data 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 are made available to the public along with the mass data TRI-MEweb can provide a report showing reported gram values converted . 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

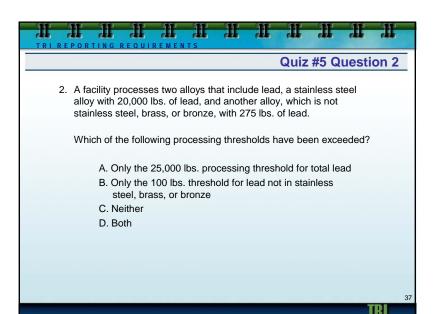
# Dioxin and Dioxin-like Compounds Dioxin and dioxin-like compounds are measured based on the individual compounds within the category – not as a total quantity. Emission factors for dioxin and dioxin-like compounds are based on emission factors for individual compounds within the category. As a result, 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



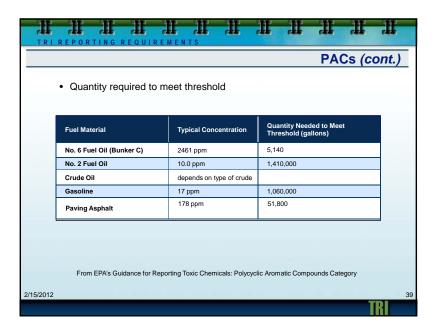


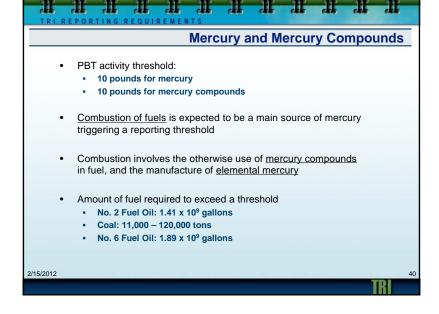


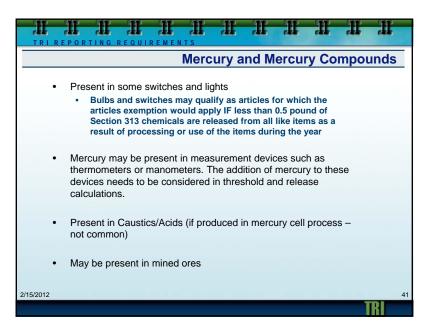


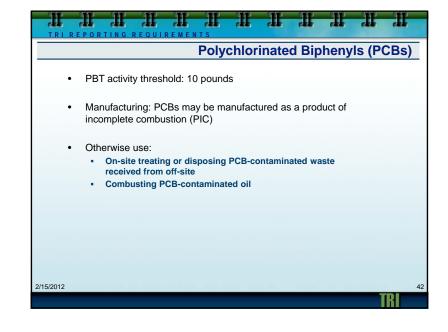


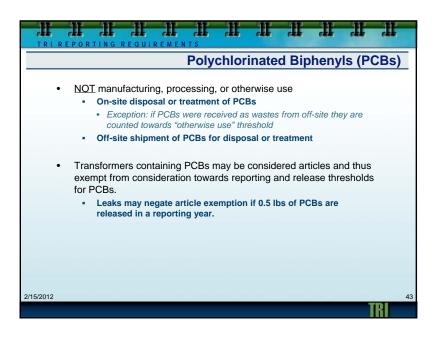
# PACS and Benzo(g,h,i)perylene PBT activity threshold PAC category threshold: 100 pounds Benzo(g,h,i)perylene threshold: 10 pounds Present in coal, fuel oil, other petroleum products, such as asphalt and roofing tars Asphaltic concrete (blacktop) typically contains 4 - 10% paving asphalt Most uses of blacktop are NOT EXEMPT Process areas and roadways - NOT EXEMPT Employee parking lot - EXEMPT See also EPA's PACs guidance (www.epa.gov/tri/guide\_docs/pdf/2001/pacs2001.pdf)



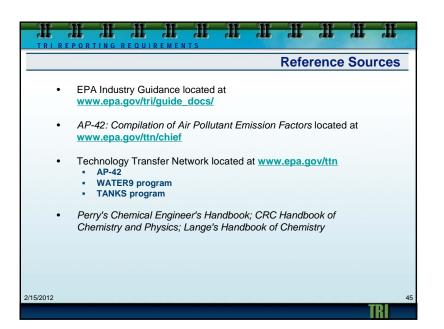


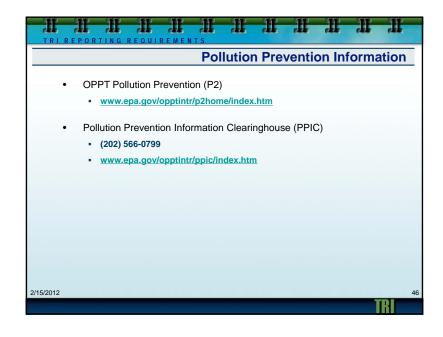




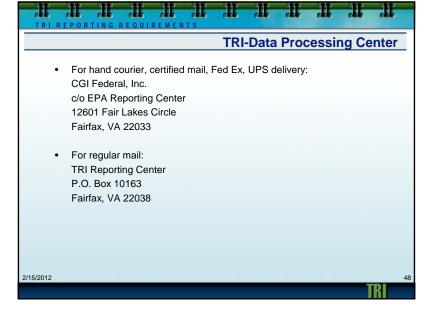


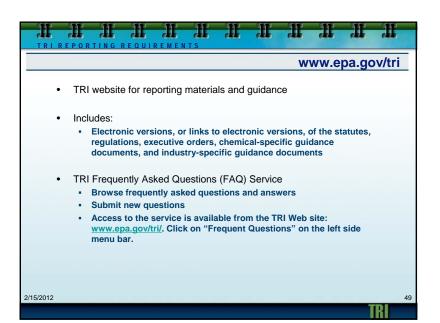






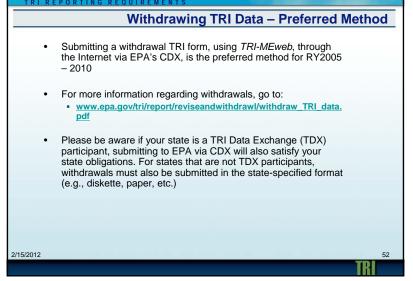




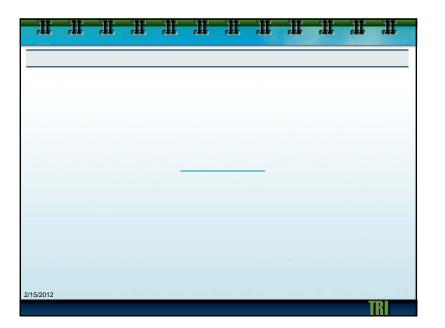


# Revising TRI Data — Preferred Method • The preferred method for submitting revised TRI forms is TRI-MEweb, through the Internet via EPA's CDX. • For more information regarding revisions, go to: • www.epa.gov/tri/report/index.htm#revise • For states that participate in the TRI Data Exchange (TDX), submitting via CDX to EPA will also satisfy your state obligations. For states that do not participate in TDX, revisions must also be submitted in the state-specified format (e.g., diskette, paper, etc.)To determine if your state is CDX capable go to: • www.epa.gov/tri/stakeholders/state/state\_exchange/

# Facility Data Profiles Review your Facility Data Profile (FDP) immediately FDP provides an opportunity to review data submitted to EPA Allows EPA to highlight errors and possible issues with your submission You MUST provide a Technical Contact email address on your TRI forms to receive real-time notification of FDP availability Use TRI-MEweb to receive your FDP sooner (than paper submissions) If you have problems accessing your FDPs, contact: E-mail: tri.efdp@epacdx.net Web: www.triefdp.org



### **Submitting Withdrawals (continued)** Withdrawals can be made through the reporting software or in hardcopy RY2007 forward: You may submit a photocopy of your original submission (from your file). Using blue ink, re-sign and re-date the certification statement on Page 1 and enter appropriate withdrawal code(s) in space on page 1 of the form. RY2006 and prior years: Please submit a photocopy of the form you wish to withdraw (from your files), and attach - as a cover page - page 1 of the current year's reporting form, which includes a field for the withdrawal codes. Using blue ink, please sign and date the certification statement and enter appropriate withdrawal code(s) in space on page 1 of the current year's form. EPA may audit withdrawals at any time 2/15/2012



### Submitting Revisions and Withdrawals Form R submitted to replace previously filed Form A Certification Statement Considered to be a late submission of a Form R and a request for a withdrawal of the previously filed Form A Certification Statement Do not check the revision box! Note that submitting a Form A when a Form R is required is considered a less severe violation than failing to submit either form (cfpub.epa.gov/compliance/resources/policies/civil/epcra/index.cfm) For a change in chemical reported (including a metal to a metal compound) you must withdraw the original submission and re-submit for the new chemical. This is not a revision. See www.epa.gov/tri/report/index.htm#revise for more information on revisions and withdrawals

2/15/2012



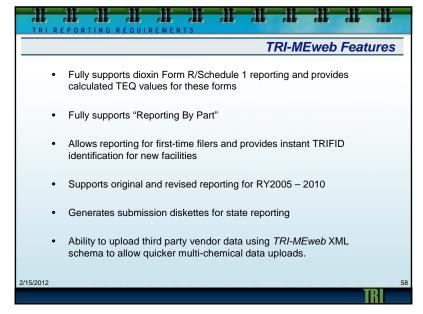
### Benefits of TRI-MEweb and Submitting Via CDX TRI forms can be filled from any computer that has an Internet connection

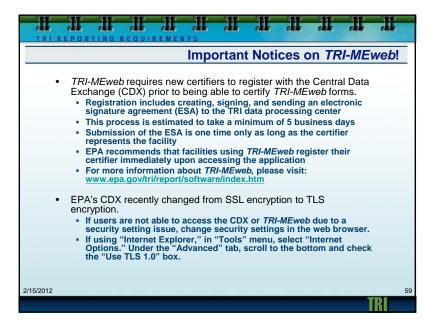
- It saves time and money
- Using TRI-MEweb significantly reduces reporting errors
- TRI-MEweb has integrated TRI Assistance Library
- EPA provides instant email confirmation of transmitted and certified submission
- Electronic Signature allows for quick, paperless submissions
- IMPORTANT: TRI-ME desktop software is no longer available. EPA only supports TRI-MEweb.

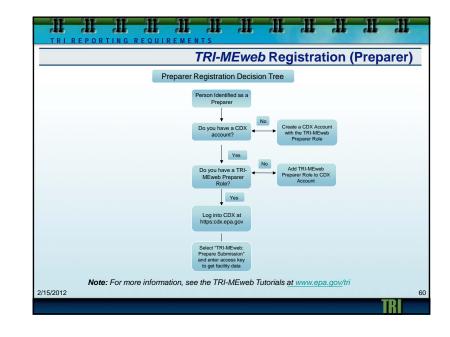
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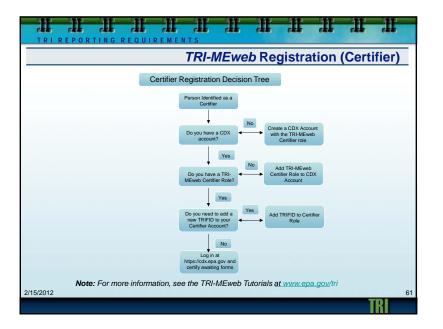


### Benefits of TRI-MEweb and Submitting Via CDX (cont.) CDX submissions are processed automatically, unlike paper submissions, which leads to faster Facility Data Profile (FDP) access Reduced data collection costs for EPA, States, and Regulated Community Facilities in participating States can submit TRI information to both EPA and their State simultaneously. To view States that are on the exchange network, go to www.epa.gov/tri/stakeholders/state/state\_exchange/ Facilities in other states can generate CD's or diskettes for their state reporting using TRI-MEweb.

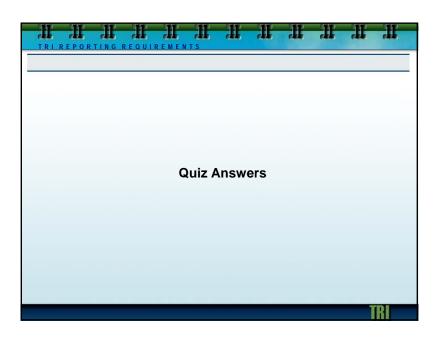


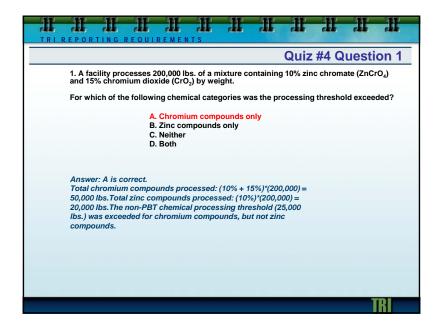


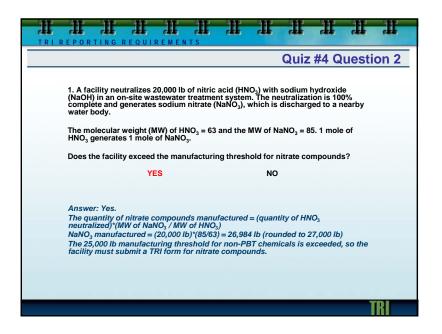


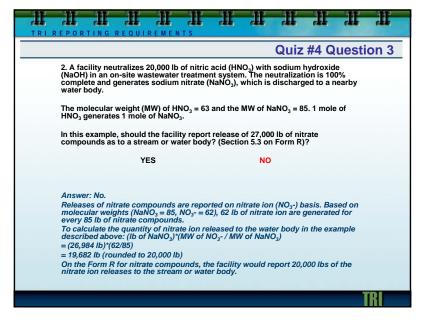














### Quiz #5 Question 1

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.)



### Other Program Changes & Potential Changes

- New fields on the reporting form
  - e.g., new(optional) section to enter miscellaneous information about your submission, such as a facility closure
- Proposed electronic reporting rule
  - Open for public comments through May 4, 2012
- TRI Data Exchange
  - . Simultaneously submit data to EPA and your state in 42 states
- · Online discussion re. adding chemicals
  - O-nitrotoluene
  - nonylphenol
- · Potential TRI sectors expansion
  - Considering whether to include sectors e.g., Steam Generation from Coal and/or Oil, Iron Ore Mining, Phosphate Mining, Large Dry Cleaning and Solid Waste Combustors and Incinerators

4/26/2012



### 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.