

Topeka, KS April 24, 2013



Risk Management Program Workshop

- □ Today's Presenters
- Logistics—bathrooms, lunch, etc.
- Approximate Schedule
 - □ 11:30 Lunch
 - Breaks As Needed
 - □ 2:50 Closing Remarks
- Student Introductions



Course Objectives

- Discuss requirements of CAA 112(r) and portions of EPCRA
- Provide information on common compliance pitfalls
- Help facilities prepare for inspections
- Help prevent accidents & minimize consequences of those that do occur



From Response to Plan/Prevention

- Bhopal, India (1984)
- Institute, West Virginia (1985)
- Increased public concern
- Worker and community planning and right-to-know laws
- Chemical accident prevention laws



Planning and Right-to-Know Federal Regulations—1986

- Worker—Occupational Health and Safety Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200)
- <u>Community</u>—Environmental Protection Agency (EPA)
 Superfund Amendments and Reauthorization Act (SARA)—EPCRA or SARA Title III

5 Background 5/28/2013



Chemical Accident Prevention Federal Regulations—1990

- □ Clean Air Act Amendments of 1990
 - General Duty Clause
 - □ OSHA Process Safety Management (PSM)—1992
 - □ EPA Risk Management Program [Section 112(r)]—1999
 - U.S. Chemical Safety and Hazard Investigation Board (CSB)—1998

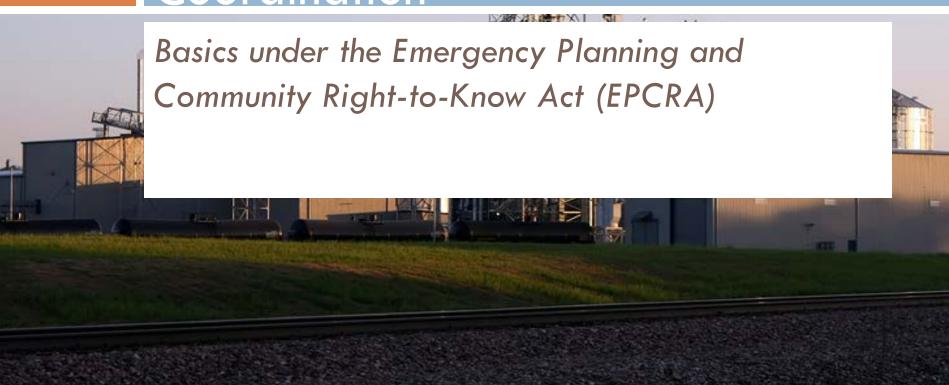


General Duty Clause

- □ No thresholds, no lists
- Facilities must:
 - Identify hazards
 - Design and maintain facility to prevent releases in accordance with good engineering and industry practices
 - Minimize consequences of releases that do occur









EPCRA Requirements

- Provide for local emergency planning around chemical risks in the community
- Industry required to provide chemical information to states, local communities, and fire departments
- Allow public to request and receive information about chemicals and chemical risks in their community

EPCRA Sections

- □ 301-303 Emergency planning
- □ 304 Emergency notification
- □ 311 Hazardous Chemical Inventory (MSDSs)
- □ 312 Hazardous Chemical Inventory (Tier I or II)
- 313 Toxic Chemical Release Reporting
- □ 321-329 Miscellaneous



EPCRA Sections 301 & 303 LEPCs and TERCS

- Includes representatives from the following groups/organizations
 - Elected state & local officials
 - Local environmental
 - Broadcast & print media
 - Community groups
 - Law enforcement
 - Transportation

- Health
- Civil defense
- Firefighting
- First aid
- Hospital
- Facilities



EPCRA Sections 302 & 303

Emergency Planning

- Supply LEPC/SERC/TERC with planning information
- Coordinate emergency response planning with community
- Designate facility emergency coordinator



Threshold Planning Quantities (TPQ)

□ For all listed substances - Lesser of 500 pounds or TPQ

Anhydrous ammonia500 pounds

□ Gasoline* 75,000 gallons

□ Gasohol* (90% gasoline/10% ethanol) 75,000 gallons

□ Diesel* 100,000 gallons

All other hazardous chemicals
 10,000 pounds

*(at retail gas station, stored entirely underground, in compliance at all times in previous calendar year with UST requirements)



EPCRA 304 & CERCLA 103 Emergency Release Notification

- Provide <u>IMMEDIATE (15 min)</u> notification via telephone, radio, or in person to:
 - Emergency coordinators of <u>ANY</u> area likely to be affected by the release
 - TERC/SERC representative of <u>ANY</u> tribe/state likely to be affected by the release; and
 - National Response Center (NRC) if required under CERCLA Section 103



EPCRA 304 & CERCLA 103

Reports Include

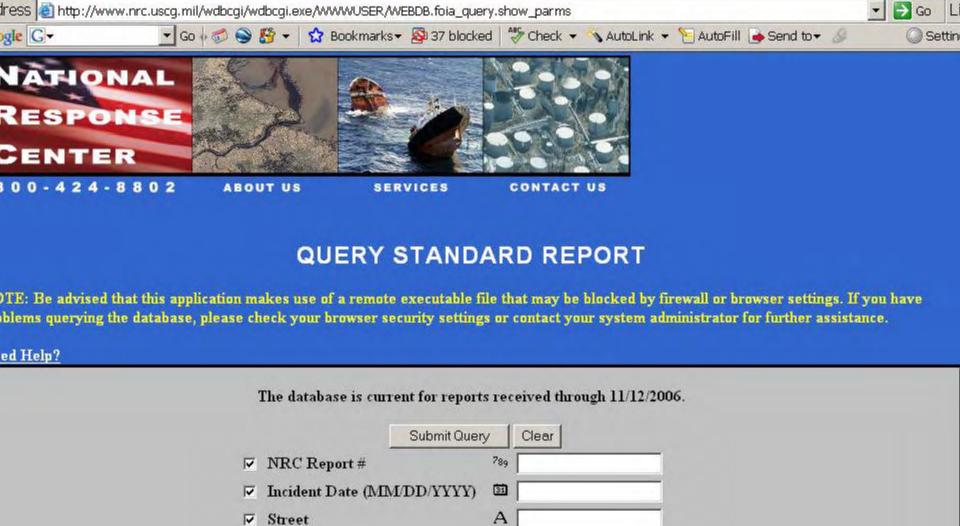
- Chemical and amount released
- Known information about the cause, weather, and impacts at the time of the call
- Who called in the information



EPCRA 304 & CERCLA 103

Written Follow-Up

- Send to LEPC/SERC/TERC as soon as practicable
- Update of initial information, including:
 - Actions taken
 - Known or anticipated chronic health risks
 - Medical attention and/or advice for exposed individuals



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EPCRA Emergency

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Location County

City

State

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Tools Help



EPCRA 304 & CERCLA 103

Exemptions

- Federally permitted releases
- Continuous releases as defined under 40 CFR
 302.8(b)
 - if appropriate continuous release notifications have been made and all conditions are met
- Pesticide or fertilizer <u>application</u>
- Motor vehicle emissions



EPCRA 304 & CERCLA 103

Petroleum Exemption

- CERCLA—Petroleum is <u>generally</u> exempted
- EPCRA—Petroleum is <u>NOT</u> excluded if an EHS is present in the petroleum



EPCRA Sections 311-312 Hazardous Chemical Inventory Reports are Required if



- Maximum on-site at any one time is more than or equal to:
 - 500 pounds or TPQ whichever is less for EHSs (including those in mixtures),
 or
 - 10,000 pounds or more if OSHA requires a MSDS



EPCRA Section 311 Chemical List/MSDSs

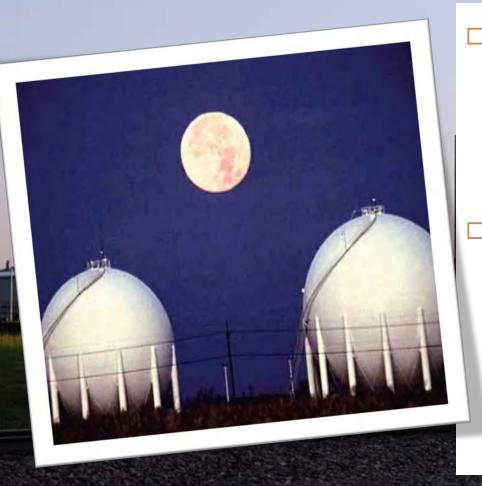


- Generate list of chemicals sorted by hazard category
- Send list or MSDSs to LEPC/SERC/TERC and local fire department
 - Submit within 90 days of inventory changes



EPCRA Section 312

Tier I or II



- Submit forms to
 LEPC/SERC/TERC and
 local fire department by
 March 1
 - Submit any additional requested emergency planning information



EPCRA Sections 311-312

Other Provisions

MSDS and Tier II information available with respect to a specific facility to the general public upon written request (40 CFR 370.30-31)

 Allow fire department(s) to conduct on-site inspections of facilities [40 CFR 370.25(d)]



EPCRA Section 313

Toxic Release Inventory

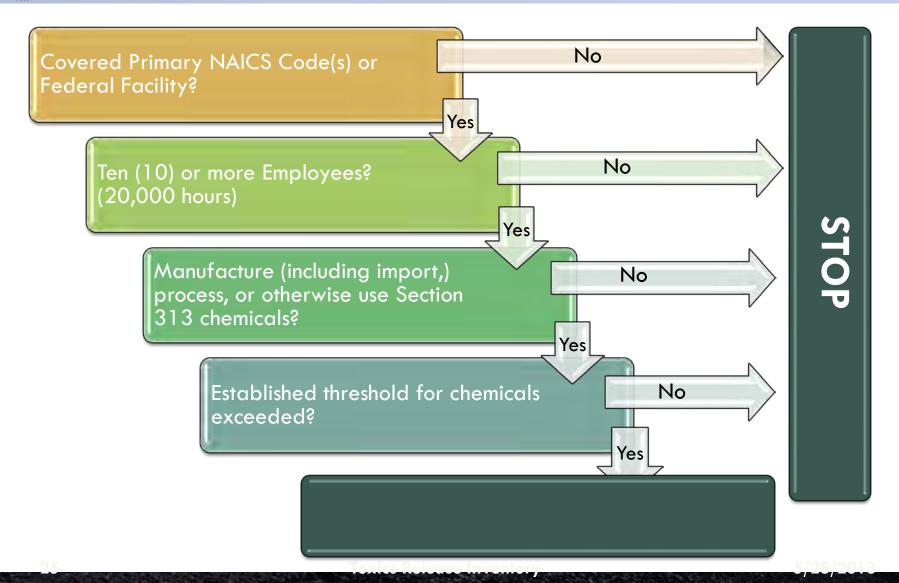
Facilities that manufacture, process, or otherwise use over certain threshold quantities of listed chemicals (that also are a listed NAICS code and have more than 10 employees).

Report Includes:

- Chemical release and disposal information
- Facility contact Information



So, Do You Need to Report?





Common 313 Substances at Ethanol Facilities

1,2,4-trimethylbenzene

acetaldehyde

acrolein

ammonia

barium compounds

benzene

chlorine

cyclohexane

ethylbenzene

formaldehyde

formic acid

lead

lead compounds

mercury

mercury compounds

methanol

n-hexane

nitrate compounds

toluene

xylene (mixed isomers)

zinc compounds



- Publicly available data
 - Public has access to the data to be able to research how prevalent chemicals of concern are in their community
 - Envirofacts: www.epa.gov/enviro
 - TRI Explorer: www.epa.gov/triexplorer
- Holds facilities accountable for what they are releasing into the environment



TRI Websites & Resources

- Main Website: www.epa.gov/tri
- □ U.S. EPA EPCRA Hotline: 1-800-535-0202
- CRIB Main Contact: Steve Wurtz
 913-551-7315
 wurtz.stephen@epa.gov



EPCRA Common Deficiencies

- Procedures for reporting release preclude notifying agencies within 15 minutes
- Not all potentially affected LEPCs/SERCs/TERCs notified
- EPCRA 311 reports do not occur within 90 days of a previously unreported substance being brought on-site



EPCRA Enforcement

- Subject to penalties of up to \$37,500 per day per violation
- Companies subject to citizen suits; could also be liable for attorney fees and litigation costs



CFATS & EPCRA/CAA 112(r) Information

 Nothing in Department of Homeland Security's Chemical Facility Anti-Terrorism Standards (CFATS) regulations alters the requirements that apply to a facility covered under CFATS <u>and</u> EPCRA or CAA 112(r)



LEPC/TERC Conference Information

- Mark your calendars!
 2013 LEPC/TERC Conference
 Overland Park Marriott, Overland Park, KS
 July 25-27
- Five great tracks, including:
 Hazmat Response, Health and Medical, LEPC 101,
 Industrial Facility Preparedness and Planning, Chemical Transportation & Security Awareness
- Optional training