Agenda for today:

An hour with EPA!

- Emergency Planning and Community Right-to-Know Act (EPCRA)
- Risk Management Program (RMP)
- Oil Spills Prevention and Preparedness Regs
  - Spill Prevention, Control, and Countermeasure (SPCC)
  - Facility Response Plans
  - Gov’t Initiated Unannounced Exercises
What is EPCRA about?

To help communities plan for emergencies involving accidental releases of hazardous substances.
What is EPCRA about?

- **Chemicals-**
  - What chemicals are in the community?
  - What training and/or equipment does the community need for those chemicals?

- **Information-**
  - Industry provides chemical hazard information to SERC/LEPC/Fire Departments.
  - LEPC can plan for chemical safety.

- **Local Communities-**
  - Everything is local. Response and planning to local hazards are all based on local partnerships
History of EPCRA

- CERCLA 1980
  - “Superfund” Act
- Superfund Amendment and Restoration Act 1986 “SARA”
- SARA Title III EPCRA -- Emergency Planning and Community Right to Know
Requirements under EPCRA

Section 301
Section 302
Section 303
Section 304
Section 311
Section 312
Section 313
Section 301-Establishes SERC/TERC/LEPC

SERC main responsibilities:

1) Appoint, supervise and coordinate LEPC activities (designate emergency planning districts).

2) Receive copies of Tier II reports and manage that information.

3) Review and approve emergency plans (developed by LEPCs).

4) Establish public info request procedures
LEPCs then established from SERC-designated emergency planning districts.

Membership should be a varied group and include:

- Elected state and local officials
- Police, fire, civil defense and public health professionals
- Reps from community groups and media
- Facility representatives
- Environmental, transportation and hospital officials
What is the role of the LEPC?

- Partnership formation with local governments and industries for hazmat planning.
- Analyze local hazards
- Develop and maintain Emergency Plan
- Assess response capabilities
- Conduct training and exercises.
If a facility has an **EHS over the limit (TPQ)** in the List of Lists:

- facility must provide a written notification within 60 days to the **SERC and LEPC**.
- facility must then designate an emergency coordinator who can assist with development and implementation of a local emergency plan.
### Section 302 - Emergency Planning Notification

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LEPCs need to:

- Develop an emergency response plan for the community.
- Develop procedures for public requests for info

This section gives authority to LEPCs to request and obtain information from facilities relevant to emergency planning.
Section 303- Emergency Response Plan

- Identification of facilities and transportation routes of EHSs.
- Emergency response procedures, on and off site.
- Designation of a community coordinator and facility emergency coordinator(s) to implement the plan.
- Emergency notification procedures.
Section 303- Emergency response plan

- Description of how to determine the most likely affected area and population by releases.
- Describe local emergency equipment and facilities and the persons responsible for them.
- Outline an evacuation plan(s).
- Establish training programs for emergency responders (including schedules).
When release or spill occurs of an EHS over the Reportable Quantity (RQ) in the List of Lists, a facility must make immediate notifications.
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Section 304 - SPILLS – Who to call

- National Response Center
  (800) 424-8802

- LEPC and SERC immediately
  Also follow with written report (within 2 weeks)
Section 311/312 Chem Reporting and TIER II

If a facility stores an EHS at TPQ or 500 lbs (whichever is less)

-or-

A hazardous chemical (requiring an SDS) in an amount over 10,000 lbs.

- 311-1<sup>st</sup> time obtain chem in question submit SDSs w/in 90 days to SERC/LEPC/Local Fire Dept.

- 312-must submit Tier II report to the LEPC, SERC, and local fire dept <strong>annually</strong>.
Section 312 - Tier II Reports

Do you need to submit a Tier II report?

- Hazardous Chemical?
  - Requires an SDS via OSHA?
  - Over 10,000 pounds at any one time?

  - If Yes
    - Extremely Hazardous Substance?
      - On the List of Lists?
      - Over the TPQ or 500 pounds? ...whichever is less

  - If Yes
    - Tier II Report required

  - If No
    - Diesel or Gasoline?
      - Retail?
      - Underground storage tanks?
      - Over 100,000 gallons of diesel? or
      - Over 75,000 gallons of gasoline?
Section 313-Toxics Release Inventory

TRI-is designed to give public access to information on presence, annual releases and waste management.

*A facility who manufactures, processes, uses or disposes for each qualifying chemical in the List of Lists to submit a ‘Toxic Release Inventory’ report (TRI).
What can be done on the local level?

- PLAN AND PREPARE
- RESPOND EFFECTIVELY
- PREVENT THE ACCIDENT
Risk Management Program (RMP)
Origins of RMP (CAA112r)

Purpose of RMP:

- Prevent accidental releases of chemicals that can cause serious harm to the public or the environment from short-term exposures
- Mitigate the severity of releases that do occur
- Provide information on chemical risks to the public
Origins of RMP (CAA112r)

Congress passed Clean Air Act (CAA) Amendments of 1990

1. Established General Duty Clause
2. Required EPA to regulate at least 100 substances known to cause death or serious adverse effects to human health or the environment
3. Required EPA to promulgate regulations & guidance to prevent, detect & respond to accidental releases of regulated substances
4. Regulations include submission of a risk management plan (RMP) to EPA
RMP - General Duty Clause

Owners and operators have a “general duty” to:

- Appropriately identify hazards with potential accidental release of extremely hazardous substance (EHS);
- Design and maintain a safe facility and attempt to prevent releases;
- Minimize consequence of accidental releases that do occur.

_Not limited to specific list of chemicals or thresholds- any EHS/any amount_
RMP- Risk Management Plans

- Covers facilities with one or more of the 140 regulated substances above threshold quantities

- Requires facilities to:
  - Implement an accident prevention program
  - Implement an emergency response program
  - Conduct a hazard assessment
  - Submit a summary report “RMP” to EPA

- RMPs available to government, limited public access
RMP- Substances Regulated

Final list:

- 77 toxics
- 63 flammables
  - Based on toxicity, ambient physical state, flammability, production volume and accident history

Threshold quantities established:

- Toxics- various levels
- Flammables- 10,000 lbs
- Mixtures considered
- Some substances with specified concentrations
RMP- Substances Regulated

Where can you find this? The List of Lists!

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Who is covered by RMP?

- Owners and operators of a facility:
  - Must be a stationary source
  - With one or more regulated substances
  - Contained in a process
  - Above a threshold quantity
RMP definitions

- **Stationary source:** any structures/equipment located on one or more contiguous properties under the control of the same person(s) from which an accidental release may occur.

- **Process:** any activity involving a regulated substance (use, storage, manufacturing, handling).

- **Regulated substance:** any substance listed in CAA 112(r)(3) in CFR 68.130.

- **Threshold quantity:** quantity specified for a regulated substance present at a stationary source.
RMP Exemptions

- Transportation and storage incident to transportation
- Flammable substances used as fuel or held for retail sale
- Gas in distribution or storage as fuel
- Naturally occurring hydrocarbons prior to processing in refinery or plant
- Anhydrous ammonia held by farmers
- Activities in labs
- Outer continental shelf activities
RMP Program Levels

Dependent on risk:

- **Program 1**
  - No public receptors in worst case scenario zone
  - No accidents w/offsite impacts in last 5 years

- **Program 2**
  - Facilities not in Program 1 or Program 3

- **Program 3**
  - Not eligible for Program 1
  - Already covered by OSHA PSM standard, or
  - Process in 1 of 10 specified NAICS codes
RMP Program Levels

1. Are public receptors within distance to endpoint for worst-case release?
   - Yes: Is process subject to OSHA PSM Standard?
     - Yes: Process Subject to Program Level 3
     - No: Is process classified in one of listed NAICS codes?
       - Yes: Process Subject to Program Level 3
       - No: Process Eligible for Program Level 1
     - No: Have offsite impacts occurred due to release of regulated substance from process?
       - Yes: Process Subject to Program Level 3
       - No: Process Eligible for Program Level 1
2. Process Subject to Program Level 2
1. Conduct Hazard Assessment (P1, P2, P3)

2. Develop and Implement an Accident Prevention Program (P2, P3)

3. Implement Emergency Response Program (P2, P3)

4. Develop Management System (P2, P3)

5. Submit Risk Management Plan to EPA (P1, P2, P3)
1st Req- Hazard Assessment

- Five year accident history
  - Include all accidental releases of regulated substances from covered processes resulting in:
    - On site: deaths, injuries, or significant property damage
    - Off site: deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage

- Offsite consequence analysis
  - Identify worst-case release scenario
  - Alternative (more likely) release scenario (except Program 1)
  - Estimate offsite impacts
2nd Req- Prevention Program (Program 2)

- Safety Information
- Hazard Review
- Operating Procedures
- Training
- Maintenance
- Compliance Audits
- Incident Investigation
2\textsuperscript{nd} Req- Prevention Program (Program 3)

- Process Safety Info
- Process Hazard Analysis
- Operating Procedures
- Training
- Mechanical Integrity
- Compliance Audits

- Incident Investigation
- Pre-Startup Review
- Management of Change
- Employee Participation
- Hot Work Permit
- Contractors
3rd Req- Emergency Response Program

- Non-responding facilities
  - Facility included in community emergency response plan
  - Emergency notification mechanisms in place
  - Annually coordinate response actions with local responders/LEPCs
  - Conduct annual notification drill (after 03/14/21)

*Program 1 should at least coordinate with local responders*
3rd Req- Emergency Response Program

- Responding facilities
  - Implement emergency response program (response procedures, training, equipment, etc.)
  - ER plan coordinated with community ER plan
  - Annually coordinate response actions with local responders/LEPCs
  - Perform field & tabletop exercises and notification drills (after 03/14/21)
4th Req- Management System

- Program 2 and Program 3 facilities
- Develop management system to implement RMP elements
- Designate qualified person or position with overall responsibility:
  - Development, Implementation, Integration
- Document names/positions and define lines of authority
5th Req- How do I submit my RMP?

- Submit electronically via RMP*eSubmit
  - Access through EPA’s Central Data Exchange
  - For more information on registering, please see the RMP*eSubmit Users Manual: https://www.epa.gov/rmp/rmpesubmit-users-manual
  - CDX Help Desk 888-890-1995
  - Revised every 5 years or more frequently with changes

RMP Reporting Center is available-8:00 AM to 5:30 PM, Mon-Fri for questions on the RMP program.
703-227-7650
RMPRC@epacdx.net
Final December 2019

- Rescind accident prevention program provisions (third party audits, safer technology and alternatives analyses, incident investigation root cause analysis)
- Rescind most public information availability provisions to combat redundancy
- Modify emergency coordination and exercise provisions to address security concerns raised
RMP: More Information

- **General information:** [http://www.epa.gov/rmp](http://www.epa.gov/rmp)
- **Hotline:** 800-424-9346 (select option #6 from menu)
Oil Pollution Prevention Regulations
Spill Prevention Control and Countermeasure (SPCC) Rule:
Requirements to help prevent oil discharges from reaching navigable waters or adjoining shorelines.

- Authority from the Clean Water Act
- EPA implements Rule nationwide (under 40 CFR 112)
- Effective date January 1974
What is the SPCC Rule?

Requires certain facilities develop and implement a *site-specific SPCC Plan* to address:

- Containment and procedures to **Prevent** oil discharges;

- Proactive **Control** measures to keep an oil discharge from entering navigable waters of the U.S. or adjoining shorelines (containment); and

- Effective **Countermeasures** to contain, clean up, and mitigate any oil discharge that affects navigable waters of the U.S. or adjoining shorelines (spill response measures).
Who is Regulated under SPCC?

SPCC applies to non-transportation related facilities which:

- Stores, transfers, uses, or consumes oil or oil products (such as diesel fuel, gasoline, lube oil, hydraulic oil, adjuvant oil, crop oil, vegetable oil, or animal fat) and

- Stores more than 1,320 US gallons in aboveground containers; or store more than 42,000 US gallons in completely buried oil storage containers and
  - (Farms-Store more that 2,500 US gallons in aboveground containers)

- Could reasonably be expected to discharge oil to waters of the US or adjoining shorelines, such as interstate waters, intrastate lakes, rivers, and streams.
Expectation of Oil Discharge

What is a “Reasonable Expectation of an Oil Discharge”? 

- Initial determination by the owner/operator based on geographical and location aspects of the production facility 
- You may consider proximity to water, land contour, drainage 
- Exclude manmade features, such as secondary containment dikes around tanks and impoundments, in determination 

Keep in mind: 

- Oil floats 
- Adverse weather 
- Precipitation run off
Applicability

- Owner/operator makes the initial decision on applicability of SPCC regulations to the facility: Does the facility meet the applicability criteria (volumes of oil, expectation to spill to waterway)?

- No requirement to submit SPCC Plan to EPA for approval.

- Plan is required upon inspection.

- Plans need to be updated every 5 years or sooner if changes are made to facility.
SPCC Plan Requirements

SPCC regulations requires preparation and implementation of a written Plan to address:

- Operating procedures for routine handling of products to prevent a discharge of oil;
- Discharge or drainage control measures to prevent a discharge of oil;
- Countermeasures to contain, clean up, and mitigate an oil spill;
- Methods of disposal of recovered materials; and
- Contact list and phone numbers of company, contract response personnel, and National Response Center.
SPCC Plan Help

SPCC Guidance for Regional Inspectors:
Facility Response Plan (FRP): Specifies requirements for preparedness and response to oil discharges (subset of SPCC).

FRP’s are identified by either:
- Self-identification process
- Determination of the RA
FRP Requirements:

Owner/operator of a “substantial harm” facility must develop and implement an FRP:

What is substantial harm? A facility that could reasonably be expected to cause substantial harm to the environment by discharging oil into or in navigable waters.
Substantial Harm Criteria - FRP

Transfers over water from vessel and total oil storage capacity greater than or equal to 42,000 gallons?

- NO

Total oil storage capacity greater than or equal to 1 million gallons?

- YES

Within any storage area, lacks secondary containment sufficiently large to contain capacity of largest AST plus sufficient freeboard for precipitation?

- NO

Located at distance such that discharge could cause injury to fish and wildlife and sensitive environment?

- NO

Located at distance such that discharge would shut down a public drinking water intake?

- NO

Has experienced reportable oil spill in an amount greater than or equal to 10,000 gallons within the last five years?

- NO

No Submittal of Response Plan, except at RA discretion

- YES

Submit Response Plan

- YES

Depend on Planning Distance

Yes
FRP: Requirements

1. Emergency Response Action Plan (ERAP)
2. Facility information
3. Information about emergency response
4. Hazard evaluation
5. Response planning levels
6. Discharge detection systems
7. Plan implementation
8. Self-inspection, drills/exercises, & response training
9. Diagrams
10. Security systems
11. Response plan cover sheet
FRP Response Capability

- Demonstrate availability of response personnel and equipment necessary to respond within the specified times.

- Resources may be ensured by “contract or other approved means”.
  - Written contractual agreement with OSRO
  - Written certification by the owner or operator that the necessary personnel and equipment are available to respond to a discharge within appropriate response times
  - Active membership in local or regional cooperative
  - Other arrangement approved by the RA upon request by the owner or operator
Vulnerability Analysis

- Addresses the potential effects of an oil spill (to human health, property, or the environment)
- Using planning distance, identify the following areas within the trajectory of a discharge and discuss the vulnerability of each:
  - Water intakes
  - School & medical facilities
  - Residential areas & businesses
  - Wetlands & other sensitive environments
  - Fish & wildlife areas
  - Lakes and streams
  - Endangered flora & fauna
  - Transportation routes
  - Utilities
  - Recreational parks (e.g. public parks)
  - Other areas of economic importance
FRP Updates

- Changes to the facility configuration that materially alters FPR info
- Change in the oil type at facility
- Changes to the OSRO
- Changes to discharge prevention, response equipment and/or response procedures.
  → Within 60 days of change

Otherwise update every 5 years
What to Expect during GIUE:
Discharge Scenario: 2,100 gallons in water

What to Expect during GIUE:
Containment boom (1000’) and means to deploy it available at the facility within 1 hour of simulated drill.
GIUEs under FRP Rule

GIUE performance evaluation criteria:

- Oil recovery devices/equipment and temporary storage available within 2 hours of discovery of the spill.

- Must have effective daily recovery capability equal to amount of oil released in a small discharge (i.e., 2,100 gallons).

- Deployed and ready to start oil recovery.

- Actual pumping of water is not required.

- Daily storage capacity equivalent to twice the effective daily recovery capacity (unless owner shows lower capacity is adequate. If unknown, then twice the volume of the spill or 4,200 gallons is required).
GIUEs under FRP Rule

Satisfying the GIUE Requirements

- The Federal On-Scene Coordinator (OSC) will end the exercise when:
  - It has been determined that the simulated spill has been contained;
  - At the end of 4 hours; or
  - At anytime safety is an issue or the response appears to be ineffective.

A facility that satisfies the requirements of the exercise is not subject to another PREP GIUE for 36 months.
GIUEs under FRP Rule

Satisfying the Requirements:

A facility that does not satisfy the requirements of the exercise may be subject to another PREP GIUE at any time.

EPA may pursue an enforcement action for violations of the Oil Pollution Prevention regulations, including deficiencies observed during an exercise.

Penalties are assessed on a per day basis, it is in the facilities best interest to correct any observed noncompliance as quickly as possible!
GIUEs under FRP Rule

Objectives:
EPA and the Coast Guard view the GIUE program as a tool to help facilities determine response readiness and identify areas requiring improvement.

- Can facilities respond quickly and effectively to contain an oil spill?
- Conduct proper notification as detailed in the Facility Response Plan (FRP).
- Activate the facility’s Spill Management Team and/or Oil Spill Removal Organization (OSRO).
- Mobilize adequate equipment to effectively respond to the incident.
Reporting of Oil Spills

Report all oil discharges to navigable waters of the U.S. or adjoining shorelines to NRC at **1-800-424-8802**.

- NRC is the Federal government's centralized reporting center, which is staffed 24 hours a day by U.S. Coast Guard personnel.
- Any person in charge of a vessel or an onshore/offshore facility must notify NRC immediately after knowledge of the discharge.
- NRC relays information to EPA or U.S. Coast Guard depending on the location of the incident.

An On-Scene Coordinator evaluates the situation and decides if federal emergency response action is necessary.
SPCC & FRP: More Information

EPA’s Oil Spill Regulations web page:
- [https://www.epa.gov/oil-spills-prevention-and-preparedness-regulations](https://www.epa.gov/oil-spills-prevention-and-preparedness-regulations)

EPA Emergency Management web pages
- [www.epa.gov/emergency-response](http://www.epa.gov/emergency-response)

**HOTLINE:** Superfund, TRI, EPCRA, RMP, and Oil Information Center
- (800) 424-9346
- [https://www.epa.gov/epcra/forms/contact-us-about-emergency-planning-and-community-right-know-act-epcra](https://www.epa.gov/epcra/forms/contact-us-about-emergency-planning-and-community-right-know-act-epcra)
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