What is the Risk Management Program?

Kansas LEPC Conference
July 2018
Today’s Agenda

• What is the Risk Management Program?
• How does the Risk Management Program help Local Emergency Planning Committees (LEPCs)?
• How can you access Risk Management Plans (RMPs)?
• What restrictions exist on using RMPs?
• Resources
What Does RMP Stand For?

• Per the regulations RMP refers to the plan – but in practice
  • RMP = Risk Management Program Regulation 40 CFR Part 68
    • Also known as the chemical accident prevention rule
  • RMP = Risk Management Program implemented by facilities
    • Numerous activities facilities undertake to prevent accidents
  • RMP = Risk Management Plan
    • Plan describing a facility’s program
    • Submitted to EPA per 40 CFR Part 68 Subpart G
Risk Management Program
Clean Air Act 112(r)(7) in 40 CFR Part 68

• Prevent accidents from occurring
• Minimize consequences of accidents that do occur
Who is Subject to the Risk Management Program Requirements?

- Must have one or more listed chemicals

63 Flammables

77 Toxics

- Must have a threshold quantity in a process
RMP Facilities in Region 7

As of July 2018

- Iowa: 833
- Kansas: 632
- Nebraska: 433
- Missouri: 368
- R7 Total: 2,266
Common Facility Types in R7 States

Agriculture – 74%

Food & Beverage 11%

Water & Wastewater 3%

Chemical Manufacturing 6%

Energy 3%

Other 2%
Risk Management Program Elements

• Management System
• Hazard Assessment
• Prevention Program
• Emergency Response
• Risk Management Plan
Management System

Document who does what to manage risks

<table>
<thead>
<tr>
<th>Activity</th>
<th>Plant Manager</th>
<th>EHS Manager</th>
<th>Chief Mechanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certify RMP</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prepare RMP</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Review hazards</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Develop operating procedures</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Maintain equipment</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Develop emergency plan</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>
Hazard Assessment

• How much of the community could a release impact?
  • Worst Case Scenario – assumes release from largest vessel

• What accidents are most likely to occur?
  • Alternative Release Scenario – often an accident that has occurred

• What has gone wrong?
  • Five-year accident history
5-Year Accident History

• **No** quantity thresholds
• Must include in the 5-year accident history if
  • Death
  • Injury
  • Significant property damage
  • Off-site shelter-in-place
  • Off-site evacuation
  • Off-site environmental damage
## Prevention Program

<table>
<thead>
<tr>
<th>Program 1</th>
<th>Program 2</th>
<th>Program 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>• No public receptor in worst case scenario</td>
<td>• Not eligible for Program 1</td>
<td>• Subject to OSHA PSM or</td>
</tr>
<tr>
<td>• No RMP accidents with off-site consequences</td>
<td>• Not subject to Program 3</td>
<td>• In listed NAICS code</td>
</tr>
<tr>
<td>• Facilities with smaller worst case scenario circle</td>
<td>• Agricultural ammonia facilities</td>
<td>• Larger facilities with complex processes</td>
</tr>
<tr>
<td>▪ Less volatile toxics</td>
<td>• Water treatment facilities in Kansas, Missouri, Nebraska</td>
<td>▪ Ammonia refrigeration</td>
</tr>
<tr>
<td>▪ Only flammables</td>
<td></td>
<td>▪ Refining</td>
</tr>
<tr>
<td></td>
<td></td>
<td>▪ Ethanol manufacturing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>▪ Chemical manufacturing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Water treatment in Iowa</td>
</tr>
</tbody>
</table>
Prevention Program Requirements

Program 2
• Safety information
• Hazard review
• Operating procedures
• Training
• Maintenance
• Compliance audits
• Incident investigation

Program 3
• Process safety information
• Process hazard analysis
• Operating procedures
• Training
• Mechanical integrity
• Compliance audits
• Incident investigation

• Pre-startup review
• Management of change
• Employee participation
• Hot work permit
• Contractor
Key to Accident Prevention

Facilities utilize industry standards or recognized and generally accepted good engineering practices (RAGAGEP)
In Case of Emergencies

• Facilities determine their response level
Characteristics of a Non-Responding Facility

- Employees expect community first responders to address release
- Employees instructed to evacuate
- Facility emergency action plan does not address stopping chemical releases, except for activating emergency shut-offs
- No active incident command system
- There are often too few employees to make entry team
Characteristics of a Responding Facility

- Employees instructed and trained to respond to fires or releases of regulated substances
- Response drills conducted and critiqued
- Notification system in place to assemble employees for purpose of responding to a release
- Employees aware of expected response by local emergency response personnel
Risk Management Plan (RMP)

- Formal submittal to EPA
- Snapshot of milestones in the Risk Management Program
# How does the Risk Management Program Help LEPCs?

**Emergency Response Planning**

<table>
<thead>
<tr>
<th>Responding Facilities</th>
<th>Non-Responding Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop Emergency <strong>RESPONSE</strong> Plan</td>
<td>Develop Emergency <strong>ACTION</strong> Plan</td>
</tr>
<tr>
<td>• Procedure for informing public</td>
<td>Coordinate with local response agency for potential releases:</td>
</tr>
<tr>
<td>• Procedure for informing response agencies</td>
<td>• Fire Department for flammables</td>
</tr>
<tr>
<td>• Document first aid and medical treatment</td>
<td>• LEPC for toxics</td>
</tr>
<tr>
<td>• Procedure for emergency response</td>
<td></td>
</tr>
<tr>
<td><strong>Procedures for using, inspecting, testing, and maintaining emergency response equipment</strong></td>
<td><strong>Ensure facility covered in community emergency response plan</strong></td>
</tr>
<tr>
<td><strong>Train employees in relevant procedures, emergency equipment use, and response techniques</strong></td>
<td><strong>Ensure fire department has equipment and training to respond</strong></td>
</tr>
</tbody>
</table>

**ALL facilities should coordinate with LEPC and other response officials**
Communicating with Facilities

Be persistent...

Be patient...

Be polite...

Do research...

Make friends...

Common goals...

Find out what method works...

An accidental release should not be the first time local responders and facility personnel meet.
LEPCs & Emergency Responders Can Request

• Current copy of RMP
  • Off-site consequence analysis
  • Names and quantities of regulated substances
  • Accidents in past 5 years
  • Emergency contacts

• Copy of incident investigation reports
  • May include information on near misses
  • Discusses what happened and follow-up taken

• Copy of Emergency Response Plan or Emergency Action Plan

These are all Risk Management Program items facilities are required to have
Building Relationships with Facility Personnel

- **Tell** them why the information will help you do your job to protect the community
- **Open the door** to discuss emergency planning by requesting the RMP
- **Suggest** conducting a joint emergency drill
- **Encourage** facility to join the LEPC
How can you access it?
Obtaining Info from Reluctant Facilities

• Request in writing (*Certified Mail*)
  • Emphasize importance to community
  • Ask why they will not share information
  • Give opportunity to demonstrate good corporate citizenship
• If facility still refuses, ask for assistance from the state/SERC, and then from EPA

LEPCs need good partnerships with facilities
How to Find RMP Facilities
Check Tier II Reports
How to Find RMP Facilities
Vulnerable Zone Indicator System
www.epa.gov/rmp/forms/vulnerable-zone-indicator-system

Vulnerable Zone Indicator System

Use this site to access the Vulnerable Zone Indicator System (VZIS). VZIS can help you determine if your area could be affected by a chemical accident at a facility that submitted a Risk Management Plan (RMP).

To use the VZIS: Enter a street address in the form fields below or use latitude/longitude (Option 2). You will receive our response via e-mail, so be sure to include your e-mail address in the box provided.

Note
The personal information you provide will be discarded after it is used for the sole purpose of responding to your VZIS request.
How to Find RMP Facilities
Envirofacts
www.epa.gov/enviro/

- Maps facilities subject to various regulations
- Find out last time EPA inspected facility
- Learn facility compliance history
- Access information on routine releases (Toxics Release Inventory)
How to Find RMP Facilities
RMP*Info
https://cdx.epa.gov

Request Access to RMP*Info
Jodi Harper
(913) 551-7483
harper.jodi@epa.gov
How to Find RMP Facilities
Federal Reading Rooms
www.epa.gov/rmp/federal-reading-rooms-risk-management-plans-rmp#where

• View RMPs for facilities in your community
• Limited access to RMPs outside the area where you work and live
• R7 Locations
  • Iowa – DOJ Reading Room, Cedar Rapids
  • Kansas – U.S. EPA Region 7 Office, Lenexa; DOJ Reading Room, Topeka
  • Missouri – DOJ Reading Rooms, Kansas City & St. Louis
  • Nebraska – DOJ Reading Room, Omaha
How to Find RMP Facilities
Right-to-Know Network
www.rtk.net

- Unofficial source of RMPs and other EPA data
- Currently hosted by the Houston Chronicle
Disadvantages of Pulling RMPs from RMP*Info

- Must remember login and password
- Accessing sensitive information
  - Chemical Safety Information, Site Security and Fuels Regulatory Relief Act
- Must secure information printed from database
- Not required if information provided directly from facility
What is CSISSFRA

• Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (CSISSFRA)
• Signed into law on August 5, 1999
• Restricts distribution of off-site consequence analysis data and rankings developed from data
• People who pull data from RMP*Info are subject restrictions including:
  • Federal government officials
  • State or local government officials
  • Covered researcher

Distribution of Off-Site Consequence Analysis Information
40 CFR Part 1400.6
www.ecfr.gov

• LEPCs are authorized and encouraged to allow the public to view paper RMPs (including OCA) for facilities in their jurisdiction

• Don’t allow paper RMPs to be removed or copied
  • Recommend developing policy that viewers can’t use cell phones while viewing RMPs

• LEPCs are not required to
  • Limit the number of RMPs which a person can view
  • Ascertain a person's identity or place of residence or work
  • Keep records of public access provided
Resources
EPA Risk Management Program Website
www.epa.gov/rmp

Regulatory Requirements

Training & Guidance Documents

Accessing RMP Information

Submitting an RMP
Resources
EPA Risk Management Program Website
www.epa.gov/rmp

Training & Guidance Documents

Region 7 Risk Management Program Webinars

Discussions include:
• Requirements of CAA 112(r)(7);
• Common compliance pitfalls;
• Preparing for inspections and the Region 7 inspection process; and
• Case studies.

https://www.epa.gov/rmp/region-7-risk-management-program-webinars
Resources
EPA CAMEO/MARPLOT/ALOHA
www.epa.gov/cameo

CAMEO®

ALOHA®

MARPLOT®

Training and Resources
Resources
Chemical Accident Prevention State Coordinators

Iowa: Krystal Stotts; stotts.krystal@epa.gov; (913) 551-7946
Kansas: Terri Blunk; blunk.terri@epa.gov; (913) 551-7013
Missouri: Dave Hensley*; hensley.dave@epa.gov; (913) 551-7768
Nebraska: Terri Blunk; blunk.terri@epa.gov; (913) 551-7013

Provide compliance assistance for industry and provides information and assistance to LEPCs and the State Emergency Response Commissions

*Your presenter
Resources
Other Region 7 Federal Contacts

Department of Homeland Security
Chemical Facility Anti-Terrorism Standards (CFATS)
  David Martak; David.Martak@HQ.DHS.GOV; 202-617-0984

Department of Labor (DOL) / Occupational Safety and Health Administration (OSHA)
  Brian Drake; drake.brian@osha.gov; 816-502-9011
Your Input is Valued
Provide Comment on Risk Management Rule Modernization

- Public comment period ends July 30, 2018
- Submit written comments by visiting the Federal eRulemaking Portal at www.regulations.gov and searching docket EPA-HQ-OEM-2015-0725
- For more information visit www.epa.gov/rmp
Your Chance to Recognize a Hero
Nominations Open for the 2019 Region 7 LEPC Emergency Planning and Response Conference Awards

• Summer 2019 in the Omaha, NE metropolitan area
• Nominate your candidates for:
  • Outstanding LEPC Award (3 per state, 1 tribal)
  • Industry Award (2 per state)
  • Exercise Award
  • Digital Communications Award
  • Innovation Award
• For more information (or to receive the nomination forms) contact Karen Eagleson at (573) 526-9240 or karen.eagleson@sema.dps.mo.gov