Chemical Release Response Basics
Division of Public Safety
Chemical Release Response Basics

Visit our EM Webpage for more information

Hazardous Materials / CSEPP (Chemical Stockpile Emergency Preparedness Program)

Watch the Shelter In Place Video produced by the Madison County EMA/CSEPP

Hello, Bill Bryant Here...
Agenda

• Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) Update
• Automatic Default Protective Action Decision (PAD)
• Alert and Notification
• Enhanced Shelter In Place Buildings (ESIP)
• Collective Protection Systems (CPS)
• Sheltering Off Campus
• Self Assessment and Closing
Blue Grass Army Depot

- Built in 1941
- Traditional Munitions Depot
- Chemical Weapons Stockpile
- Chemicals Stored:
  - Mustard
  - GB
  - VX
Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) Update | Demilitarization

- Location: Blue Grass Army Depot in Madison County Kentucky
- Agents to be Destroyed: 523 Tons of Blister and Nerve Agents
  - 15% of Stockpile is Blister Agent (Mustard)
  - 85% of Stockpile is Nerve Agent (GB and VX)
- Technologies:
  - Explosive Detonation Chamber – Blister Agent
  - Neutralization/Supercritical Water Oxidation – Nerve Agents
- Current Status: Demilitarization Underway
  - Operations Began May 29th 2019
- Estimated Completion within 3 Years of Start Date
- The (Federally Graded) Annual CSEPP Exercise takes place on the 3rd Wednesday in September every year beginning around 8:30AM.
CSEPP Counties in Kentucky

KENTUCKY COUNTIES MAP
Madison County CSEPP Zones

- White Hall Historic Site in 3A
- EKU Richmond Campus North of the Bypass in 2E
- EKU Richmond Campus South of the Bypass in 2D
- Meadowbrook Farm in 1C
- Central Kentucky Regional Airport in 3D
Actions

- Shelter-in-place
  - (Exit shelter-in-place)
  - (Relocation)
- Decontamination
- Traffic Control Points
- Functional Needs
- Hospitals/Schools
Automatic, Default, Protective Action Decision: 
Shelter In Place

- Eastern Kentucky University (EKU) Richmond Campus and Madison County facilities lie in several Zones (2E, 2D, 1C, 3A, and 3D). In order to maintain continuity of operations, and to make a safe community response as fast as possible, we have extended the idea of an Automatic, Default, Protective Action Decision (PAD), used at Model Laboratory School and Burrier Child Development Center, of Sheltering In Place (SIP), to all EKU facilities in Madison County.
- The Prompt to Shelter In Place would be Any Mass Notification made, about a Community-Wide Hazardous Materials Incident, through the Advisor Alert Radios (Voice Message), the Outdoor Warning Sirens (Alternating High/Low Wail), and/or the EKU Alert System.
- Updated information, such as exactly where a chemical plume is anticipated to go, what zones are truly affected, and when the plume is projected to arrive, will be disseminated when that information becomes available.

<table>
<thead>
<tr>
<th>SHELTER IN PLACE</th>
<th>All EKU Facilities should Shelter In Place (regardless of what zones are affected)</th>
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</thead>
<tbody>
<tr>
<td>Automatic Default PAD</td>
<td>Richmond Campus ESIP Buildings: Alumni Coliseum, Combs Building, Model Gym, Perkins Building, University Building, and Whitlock Building</td>
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<td>Other locations should Shelter In Place using SIP Kits</td>
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</tbody>
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<table>
<thead>
<tr>
<th>EVACUATE if Directed To</th>
<th>EKU Madison County Facilities would Evacuate to their Pre-Determined Locations:</th>
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<tbody>
<tr>
<td></td>
<td>2E to Jacobson Park in Lexington</td>
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<td></td>
<td>Burrier to The Lexington Center in Lexington</td>
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<td></td>
<td>Model to Dunbar High School in Lexington</td>
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<td></td>
<td>2D to North Laurel High School in London</td>
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<td></td>
<td>1C to Powell County High School in Stanton</td>
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<tr>
<td></td>
<td>3A to Jacobson Park in Lexington</td>
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<td></td>
<td>3D to Garrard County Middle School in Lancaster</td>
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</tbody>
</table>
Alert and Notification

• Outdoor Warning Sirens (Alternating High/Low Wail)
• Advisor Alert Radios
• EKU Alerts (Rave Mobile Safety)

X Chemical Release in Madison County

EKU: Chemical Release Madison County.
Go to Alumni Col, Combs Bldg, Model Gym, Perkins Bldg, University Bldg, Whitlock Bldg, or SIP with SIP Kit.
The Plume

• Web-Puff
• Modeling Tool
• Direction of Travel
• Impacted Areas
• Acute Exposure Guideline Levels (AEGL)
Enhanced Shelter in Place (ESIP) Buildings

1) Alumni Coliseum
2) Combs Building
3) Model Gym
4) Perkins Building
5) University Building
6) Whitlock Building
Collective Protection Systems

- The ESIP/CPS Control Panels can be found in the following locations:
  - Alumni Coliseum - 2nd Floor Room 208
  - Combs Building - 1st Floor North East Closet
  - Model Gymnasium - Lower Level Room 151
  - Perkins Building – 1st Level Main Lobby
  - University Building - 3rd Floor by Room 323A
  - Whitlock Building - 1st Floor Room 151
Alumni Coliseum

Enhanced Shelter In Place (ESIP)
Collective Protection System (CPS)
Combs Building

Enhanced Shelter In Place (ESIP)
Collective Protection System (CPS)
Model Gymnasium

Enhanced Shelter In Place (ESIP)
Collective Protection System (CPS)
Perkins Building

Enhanced Shelter In Place (ESIP)
Collective Protection System (CPS)

Chemical Emergency
Occupant Load
5536
University Building

Enhanced Shelter In Place (ESIP)
Collective Protection System (CPS)
Whitlock Building

Enhanced Shelter In Place (ESIP)
Collective Protection System (CPS)
Collective Protection System (CPS) Panel
Collective Protection System (CPS) Panel
CPS Panel Operations Checklist

- **Move** everyone into the protected area when notified that a hazardous event has occurred.
- **Start the ESIP/CPS system** by pushing the **red start button** on the face of the control panel. Any individual may activate the system when needed. EKU Public Safety officials may not be in your ESIP building.
- **Manually close**, latch, and lock all perimeter **windows**.
- **At the time** the **hazard** is estimated to **arrive** in your zone (Zone 2E and/or 2D), **do** the following.
- **Manually close**, latch, and **lock** all perimeter **doors**.
- **Double check** that **all perimeter doors and windows** are **secure**.
- **Post** a Stop – Shelter-In-Place Protected **sign** at each **entrance**.
- **Keep** all **doors and windows closed. Remain** in the protected area **until notified** the hazard has **cleared**.
- **Stop the ESIP/CPS system** by pushing the **red start button** on the face of the control panel again. Any individual may deactivate the system when the all clear order is given. EKU Public Safety officials may not be in your ESIP building.
- **Perimeter doors and windows** may now be **opened. Exit outside**.
- **Individuals may be directed to relocate** out of the affected area.
Shelter – In – Place
(When Away from EKU Richmond Campus)

• Move indoors, taking people and pets with you
• Close and lock windows and doors
• Shut off fans & HVAC
• Move to shelter room (fewest windows)
• Cover and seal
• Listen for further instructions
• Follow instructions
Let’s Take A Quiz

We will now take a short self-assessment to refresh some of the material you have learned in this module.
Emergency Preparedness Training Available

Do you know what to do in an emergency situation? The Division of Public Safety is available to conduct Emergency Response and Evacuation Procedures Test Exercises for any group or member of the EKU community upon request. For more information, or to schedule a test exercise, please contact EKU Emergency Management at 859-622-8987, 859-622-1111, or email gary.folckemer@eku.edu.

Please visit our Training and Exercises Page at:

http://emergency.eku.edu/training-and-exercises
Thank You

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Update your contact information for EKU emergency notifications:

1. Login to EKU Direct.
2. Select “Rave Mobile Safety – Emergency Notifications”.
3. Your EKU email address is already in the system. You can add up to 3 mobile numbers for text and/or voice messaging, and add up to two more email addresses.

Do you have LiveSafe?
Download it now in Google Play or the Apple App Store.
2. Register with your phone number or email. Be sure to verify your information.
3. Search for “Eastern Kentucky University” and select as your school You’re set!

Safety starts with you.
Questions?

If you have any questions, comments, or suggestions about this course please type them in the comments section.

www.emergency.eku.edu