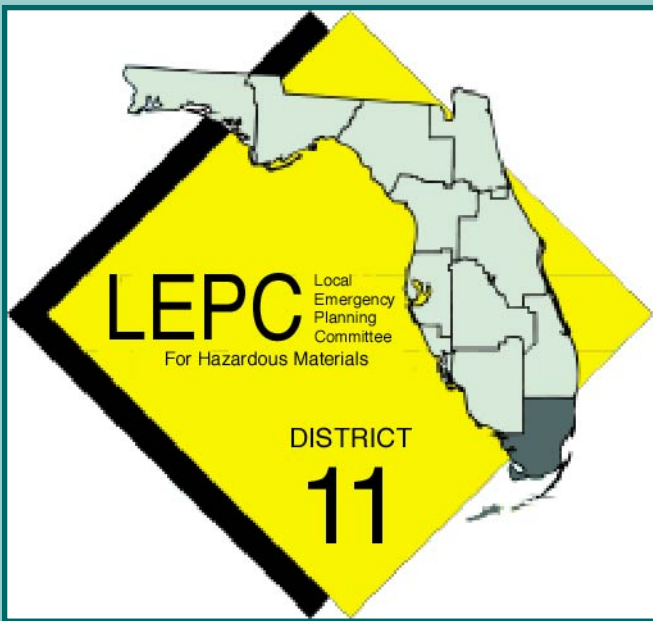




S·I·P

Shelter-In-Place

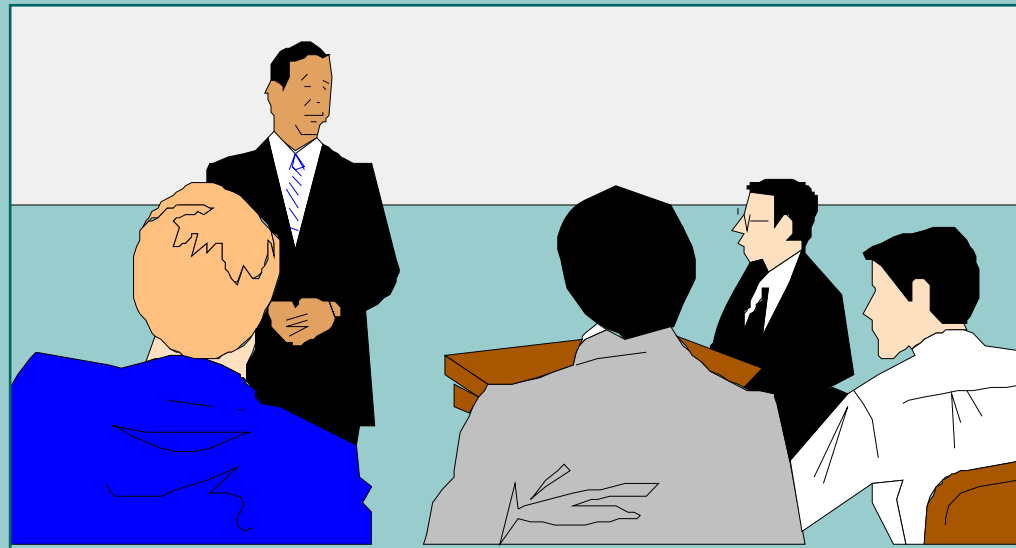


Shelter-In-Place:

What you need to know

Everyone Needs to Know...

- We live in an industrialized world
- We manufacture, transport and use products made from chemicals
- Accidental or intentional spills or releases of hazardous chemicals can occur
- During a release of hazardous materials, air quality may be threatened
- Sheltering in place is most often your safest option



What could happen?

- **Manufacturing Accident**
- **Train Derailment**
- **Interstate/Highway Accident**
- **Chemical leak from pool or wastewater treatment plant**
- **Terrorist Attack**



Propane Storage Facility



HazMat Rail Car



HazMat Facility



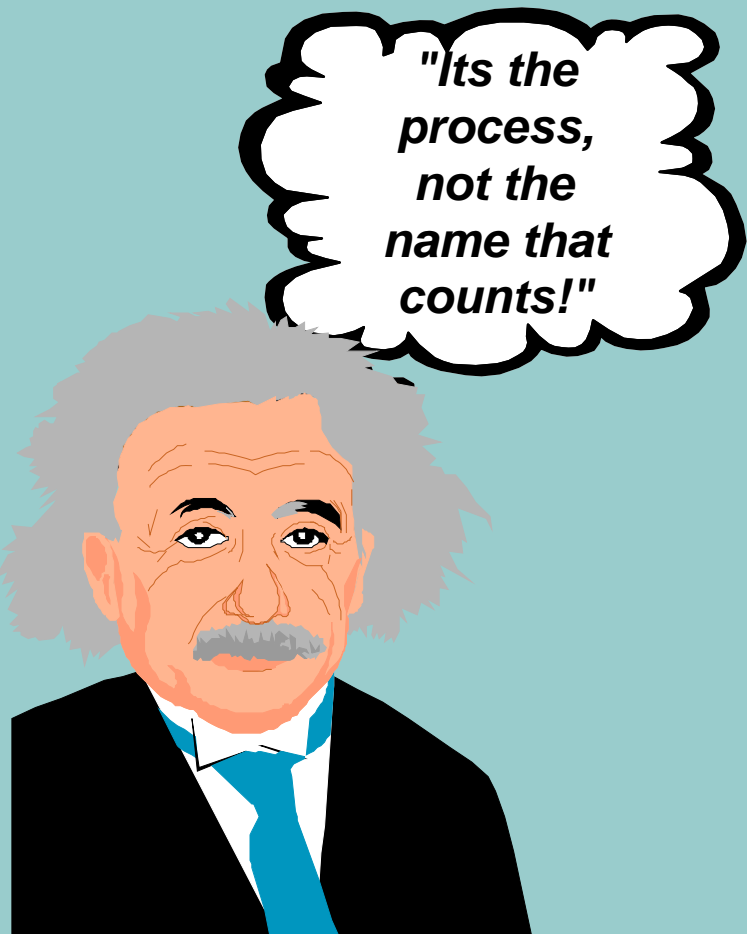
Major Accidents in Miami-Dade

- **November 1996: Tanker Ship ran aground off Key Biscayne carrying Butadiene**
- **March 2000: Freight train derails near Golden Glades Interchange, spills 1600 gallons of 70% Hydrogen Peroxide, 1100 persons evacuated**
- **January 2001: Wildfire burns into Propane tank farm in west Miami-Dade, several tanks explode, 70 businesses evacuated**
- **June 2001: Chlorine tank releases ½ ton of Chlorine Gas in Medley, 22 injured, 18 hospitalized**

Protecting the Public

- **Decision to protect the public from a hazardous material incident is complex**
- **Options include evacuating the public or sheltering the public in place**
- **Measure is determined by Incident Commander based upon the nature of the threat to the public**

Sheltering-In-Place has many names...



*"Its the
process,
not the
name that
counts!"*

"Protect-in-place"

"Cocooning"

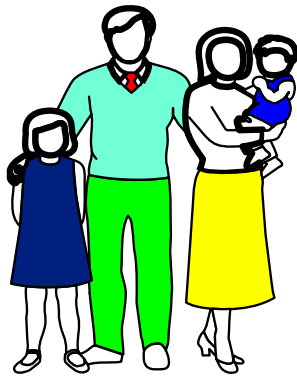
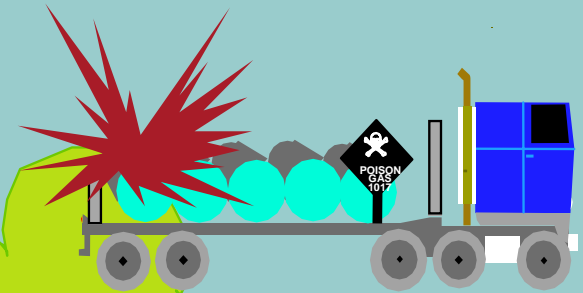
"Buttoning up"

"Using safe havens"

"Sheltering"

Sheltering-In-Place is a protective action

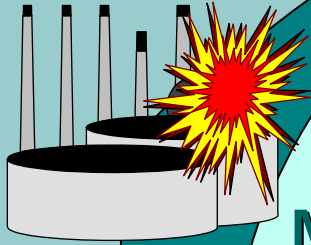
Sheltering-In-Place is the use of a structure and its indoor atmosphere to temporarily separate individuals from a hazardous outdoor atmosphere



The objective of sheltering-in-place is to minimize exposure of the public to the hazardous material released

SUMMARY OF THE GENERAL BENEFITS AND LIMITATIONS OF SHELTERING-IN-PLACE

Minimizes exposure of populations in the hazard zone



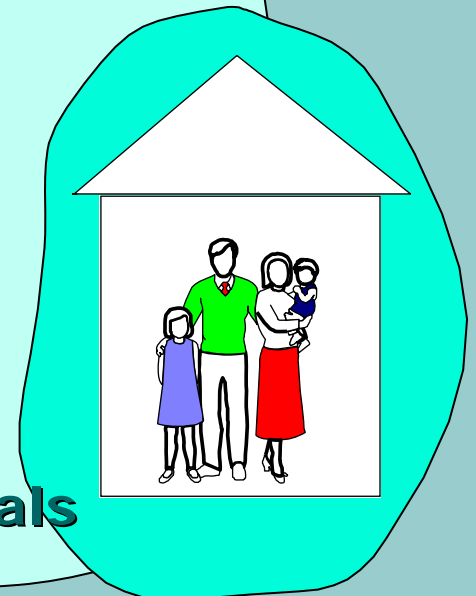
Requires suitable structures

More quickly implemented than evacuation, but termination must be controlled

Requires fewer resources from emergency response organizations

Less familiar to the public

Can be more easily implemented in densely populated areas or with institutionalized individuals



DEFINITIONS OF BASIC OPTIONS FOR PROTECTIVE ACTION DURING HAZARDOUS MATERIALS EMERGENCIES

EVACUATION

The recommended or required relocation of the public from an area of unacceptably high risk to an area of acceptably low risk

SHELTERING-IN-PLACE

Sheltering-in-place is the use of a structure and its indoor air to temporarily isolate individuals from a hazardous outdoor atmosphere

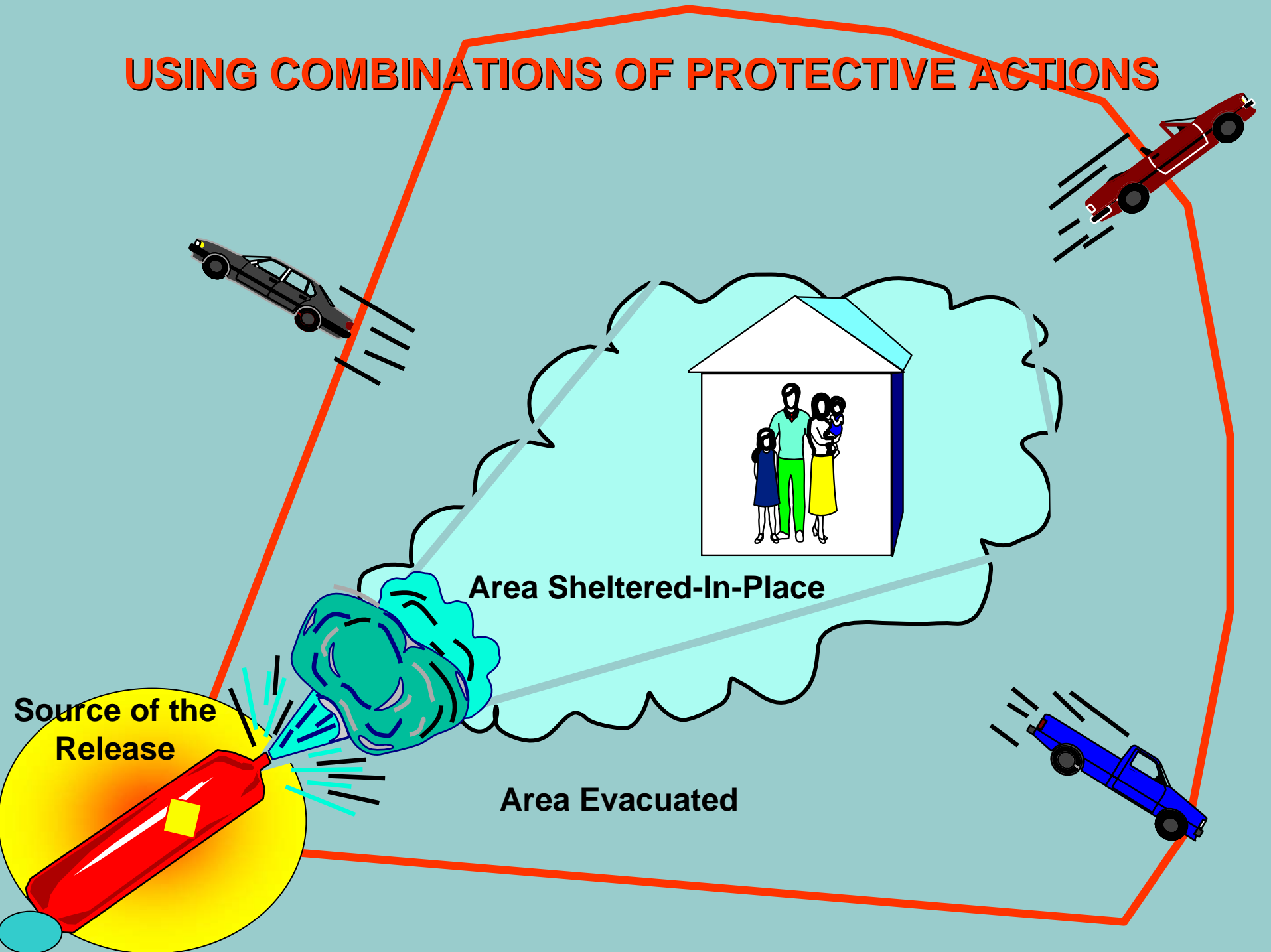
BREATHING AND SKIN PROTECTION

Breathing and skin protection are the use of readily available materials by an individual to minimize inhalation or skin contact with the hazardous material

COMBINED PROTECTIVE ACTIONS

The use of more than one protective action during an incident for different locations, at different times, or to enhance the use of a single protective action

USING COMBINATIONS OF PROTECTIVE ACTIONS



Source of the Release

Area Sheltered-In-Place

Area Evacuated

SHELTER-IN-PLACE

How Will I Know?



In some areas, a safety siren will sound.



Authorities will notify residents by radio or TV through the Public Emergency Notification System.



In Broward County some areas have emergency notification through the phone system.

SHELTER-IN-PLACE

Step 1 - Move Inside



All people and pets should move inside.

Pre-select a room with few windows. The room should be large enough for your whole family. If possible, select a room that has access to water and restroom facilities.

SHELTER-IN-PLACE

Step 2 - Close and Lock all Doors & Windows



SHELTER-IN-PLACE

Step 3 - Turn Off Ventilation Systems



Turn off heating & air conditioning



Seal Register Vents



Close Fireplace Dampers



Turn off Window Fans



Turn off Exhaust Fans

Close up and seal all openings to the outside. Turn off anything that moves air.

SHELTER-IN-PLACE

Step 4 - Everyone Should Go Into One Room



Pre-select the room you will use for Shelter-In-Place.

It is recommended that you prepare a SIP kit and keep it stored in this room. Items should include:

- Battery-operated radio w/fresh batteries
- Bottled water
- Masking tape & plastic
- Towels

SHELTER-IN-PLACE

Step 5 - Turn On Radio or Television



Turn on your radio or television
for information & instructions



Local authorities will determine
when the event is "all clear."

DO NOT call the 911 Dispatch Center. This will tie up needed telephone lines.
Call 911 ONLY if you have a true emergency situation.

Special thanks to:

**National Institute for Chemical Studies
Charleston, WV**

Harrisonburg/Rockingham County LEPC, VA



Shelter-In-Place

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