

## **ANNEX L**

### **ANNEX L HAZARDOUS MATERIALS**

#### **I. Purpose**

The purpose of the hazardous materials annex is to define and prescribe policies, procedures, resources, and activities necessary in the event of a hazardous materials incident in Arlington County and/or the City of Falls Church.

#### **II. Scope**

A. This Hazardous Materials Annex complies with the requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and Title III, Emergency Planning and Community Right-to-Know, Public Law 99-499, 99th Congress, October 17, 1986.

B. This annex is intended to provide pre-planned, coordinated response actions to protect the public from the harmful effects of an accidental chemical spill, terrorism/criminal unauthorized release of other hazardous or toxic chemicals. Such release could occur at any one of the chemical users, manufacturers, storage points or along anyone of the transportation routes within Arlington County or the City of Falls Church.

C. This annex applies to departments/activities of the Arlington County government and the City of Falls Church, as well as other persons under the emergency control of County and City officials, and to business facilities subject to the provisions of SARA, Title III, as it may be amended.

D. By mutual consent, and with the approval of the Virginia Emergency Response Council (VERC), Arlington County and the City of Falls Church have been designated as a joint emergency planning district (LEPC). The Arlington County/City of Falls Church Local Emergency Planning Committee has agreed to utilize this hazardous materials annex in both Arlington County and the City of Falls Church. All department /agency organizations (or their equivalent department/agency in the City of Falls Church) and responsibilities shall be construed as to apply to either or both jurisdictions.

E. It should be noted that the Arlington County Fire Department supplies emergency fire, EMS and other emergency services through existing agreements with the City of Falls Church. These services include initial emergency response, assessment, coordination, and other related emergency services activities during hazardous materials incidents.

F. The basic emergency services organization for response to a hazardous materials release is the same as for any other large-scale emergency, which requires the coordinated efforts of most or all of the governmental agencies to

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provide for the safety and welfare of affected citizens. In addition to the government agencies, the chemical manufacturers will provide response teams, specialized equipment, and expert technical advice to assist with off-site incidents. They will also provide specialized training to emergency services' first responders for the chemicals in their area of expertise. Dependent upon the magnitude of the incident, adjacent jurisdictions may provide support in accordance with mutual aid agreements. Other state and federal agencies may also be required to provide technical expertise and/or response teams depending on the size, toxicity, contamination threat, and duration of the incident. Assistance from these agencies is requested by the Director or Coordinator of Emergency Services, or their representative, through the State Emergency Operations Center.

G. Officials and departments with primary responsibility for initial off-site response are:

- ↑ Director of Emergency Management (Arlington County Manager)
- ↑ Coordinator of Emergency Management (Arlington County Director of Emergency Management)
- ↑ Deputy Coordinators of Emergency Management (Arlington County Deputy Coordinators of Emergency Management)
- ↑ Office of Emergency Management
- ↑ Fire Department
- ↑ Police Department
- ↑ Sheriff's Department

H. Agencies and organizations which may be required to provide technical assistance, special equipment, or response team members are:

- ↑ CHEMTREC
- ↑ State Emergency Operations Center
- ↑ VA Department Of Emergency Management
- ↑ State Department of Air Pollution Control
- ↑ State Department of Health
- ↑ State Department of State Police
- ↑ State Department of Waste Management
- ↑ State Water Control Board
- ↑ Consolidated Laboratory Services
- ↑ State Department of Highways & Transportation
- ↑ U.S. Coast Guard
- ↑ National Response Center
- ↑ Federal Emergency Management Agency
- ↑ U.S. Environmental Protection Agency Region III
- ↑ U.S Occupational Safety & Health Administration
- ↑ U.S. Department of Transportation
- ↑ Agency for Toxic Substances & Disease Registry
- ↑ U.S. Department of Homeland Security

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- † Association of American Railroads
- † CSX

*Note: Assistance may be requested from state agencies through the Virginia Emergency Operations Center (VEOC). Assistance from federal agencies may be requested through the National Response Center. The US Coast Guard, CHEMTREC and the Association of American Railroads should be contacted directly.*

I. Other County government and private organizations that may be required to provide supporting actions, dependent upon the magnitude of the situation, are:

- † Department of Human Services
- † Department of Environmental Services (DES)
- † Department of Parks and Recreation
- † Arlington Public Schools
- † Department of Technical Services
- † Department of Management and Finance
- † Area Hospitals
- † American Red Cross

### III. Situation

#### A. SARA Title III Sites

No facilities are known to be subject to the emergency planning requirements of SARA, Title III, within the Arlington County/City of Falls Church planning district.

Should sites be determined to meet the criteria, they will be included in Appendix I with facility data sheets which provide information required by the law for each facility. Included on each data sheet should be a designation of the facility emergency response coordinator, methods and procedures to be followed by facility personnel in the case of a release, methods for determining the occurrence of a release for each facility, the area or population likely to be affected by a release and a listing of available emergency equipment at the facility.

#### B. County Profile

1. Arlington County and the City of Falls Church are located in the northeastern corner of Virginia. Arlington borders the Potomac River and is encompassed in the metropolitan area of the District of Columbia. Arlington is one of the nation's smallest counties; its area is 25.8 square miles or approximately 16,500 acres. Altitudes range from sea level to 461 feet above sea level.

In 2014 the average temperature was 32.35 degrees in January, the lowest month, and 88 degrees in July, the highest month. Annual precipitation was approximately 39.69 inches. The terrain in the western part of the county is

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underlain by igneous and metamorphic rocks. The eastern section consists primarily of sand, gravel, and clay strata.

The population according to the 2013 census is estimated at 224,906. The daytime population was estimated to be 300,000 due primarily to the influx of the nonresident work force. There are 106,740 households within Arlington. The Pentagon and Ronald Reagan Washington National Airport are located in Arlington County. The CSX Railroad parallels Jefferson Davis Highway and Crystal City, with passenger and freight service. Major highways are 1-395, 1-66, George Washington Parkway, U.S. Route 1, U.S. Route 29-211, and U.S. Route 50.

High density development of high rise office, apartment, and hotel buildings began to emerge in the 1960s in Crystal City and Rosslyn. It continues along the Jefferson Davis, Rosslyn-Ballston and Clarendon corridors.

There are eleven Metro Subway stations. Virginia Hospital Center is the only hospital located in Arlington County.

2. The following roads, streets, highways and other transportation routes are likely to be used for the transportation of extremely hazardous substances.

- a. U.S. Route 1 from the Alexandria City line to the 14th Street Bridge (District of Columbia). There are small businesses located in Alexandria on this route. Deliveries from the District of Columbia and Maryland areas travel this route through Arlington into Alexandria.
- b. Columbia Pike from Fairfax County line to Washington Blvd. terminating at the Pentagon. This route is used mainly to supply small businesses located on Columbia Pike in Fairfax County
- c. Interstate 395 from Route 7 to the George Washington Parkway. This interstate is used as a primary travel and commuter route from the southern United States and Alexandria and Fairfax to the District of Columbia.
- d. Glebe Road from U.S. Route 1 to Chain Bridge Road. This route is used to service small businesses in Alexandria and Arlington from Interstate 395.
- e. Washington Boulevard from Interstate 395 to U.S. Route 7. This route is used to service small businesses in Falls Church as well as Arlington from Interstate 395 and Route 7.
- f. U.S. Route 50 from the Roosevelt Bridge to the Fairfax County line. This route is primarily used to service small businesses in Falls Church and

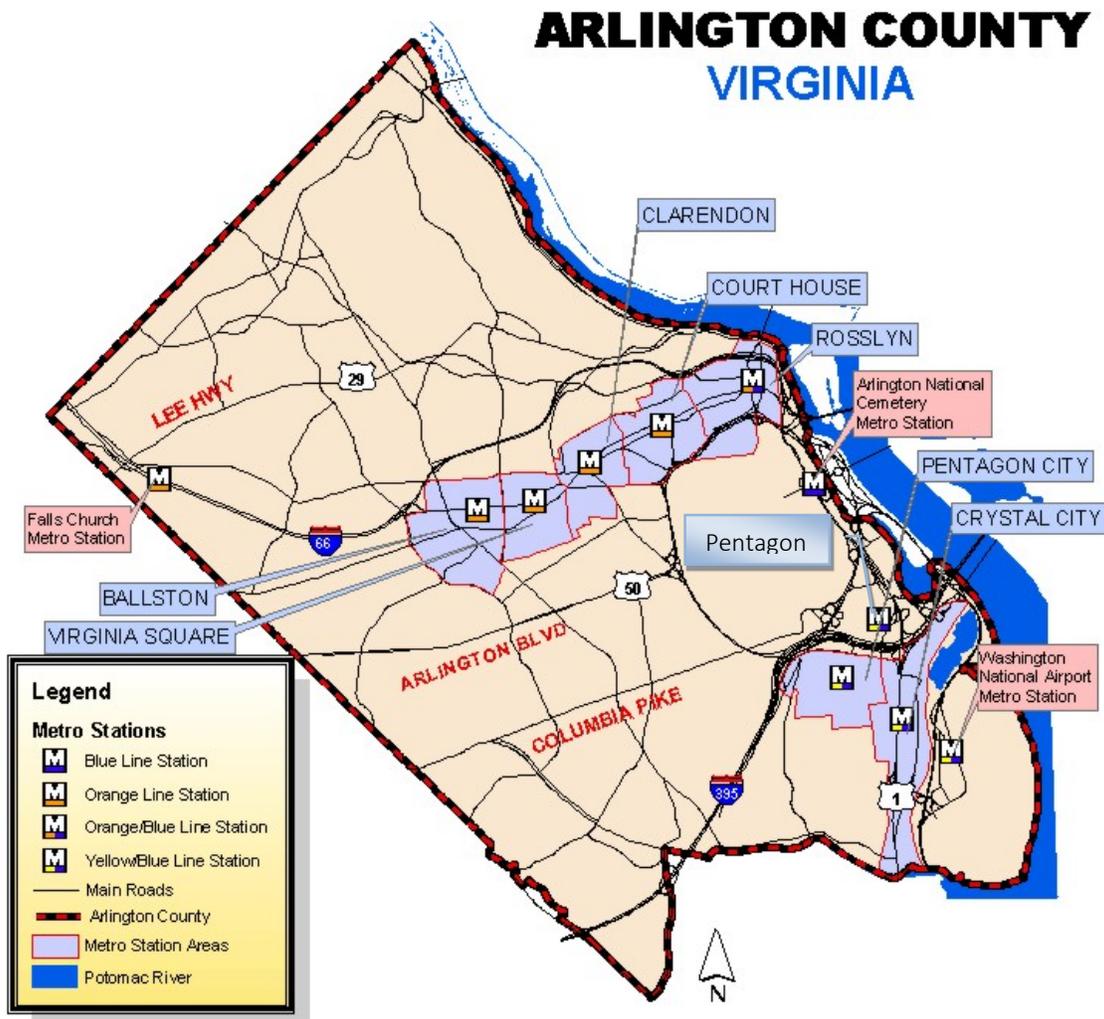
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Fairfax County from Interstate 395 via Washington Boulevard and Interstate 495.

g. U.S. Route 7 from Interstate 495 to the eastern Fairfax County line. This route is used to service small businesses in Falls Church via Interstate 495.

h. Potomac Yards. Potomac Yards is no longer a train switching facility, however, passenger and cargo traffic travel still passes through this yard. The approximate 2.3 miles of rail runs north/south and parallels Crystal Drive and Long Bridge Drive in Arlington County. The rail crosses the Potomac River to and from the District of Columbia via a separate rail bridge that is located east of the 14<sup>th</sup> Street Bridge.

i. Interstate 66 from Theodore Roosevelt Bridge in the District of Columbia to the eastern Fairfax County line. This interstate is used as a primary travel and commuter route.



#### IV. Direction and Control

##### A. Arlington County Fire Department.

The Fire Department will be the controlling agency during hazardous materials incidents. The Fire Department's operations are governed by the Hazardous Materials Response Standard Operating Procedures. Command and control of the emergency will be accomplished through the use of an National Incident Management System (NIMS) / Incident Command System (ICS). This Incident Commander (IC) will be responsible for the following:

1. Establish the Incident Command System.
2. Overall direction and control of emergency operations during the hazardous materials incident.
3. Ensure that all personnel are properly equipped with protective clothing and equipment during hazardous materials incidents.
4. Request assistance from hazardous materials response teams from neighboring jurisdictions such as teams from the Alexandria, Fairfax County or the District of Columbia Fire Departments, as needed.
5. Request technical recommendations on actions at the hazardous materials incident response.
6. Notify the Virginia Emergency Operations Center that a hazardous materials incident has occurred.
7. When necessary, request assistance from the State through the Virginia Emergency Operations Center. The State can provide:
  - a. Regional Hazardous Materials Response Team.
  - b. Other required state agency notifications.
8. When necessary, notify the National Response Center that a hazardous materials incident has occurred.
9. When necessary, request assistance from the National Response Center (NRC). The NRC will alert a federal On-Scene Coordinator (OSC) either from the USCG – Sector Baltimore or an EPA On-Scene Coordinator (OSC) depending on the spill location i.e. A Potomac River impact or an inland spill;
  - a. EPA Region III and/or USCG – Sector Baltimore through the federal OSC will provide the required response team support.

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b. The NCR will ensure proper notification to the impacted states and other federal agencies that may have interest under the National Response System (NRS).

10. In the event of a spill in a navigable waterway such as Four Mile Run Creek or the Potomac River, notify the Virginia Emergency Operations Center, National Response Center, and the Interstate Commission Potomac River Basin to alert drinking water facilities.

11. Coordinate the release of public information through the County, Fire, and Police public information officers.

12. Warn and evacuate the public as required with assistance from the Police Department and Sheriff's Office.

13. Control access to the area with assistance from the Police Department and Sheriff's Office.

14. Notification of the DES Storm Water Specialist.

### B. Office of Emergency Management.

The Office of Emergency Management will provide support to the Incident Commander during a hazardous materials incident. Such support may include:

1. Assisting with public warning, notification, and evacuation planning.
2. Activation of the County Emergency Operations Plan (EOP).
3. Activation of the Emergency Operations Center (EOC).
4. Declaration of a local emergency.
5. Request through the State a declaration of a State of Emergency by the Governor.
6. Requesting through the Governor a Presidential Disaster Declaration.
7. Requesting state and interstate mutual aid.
8. Mitigation planning for hazardous materials incidents.
9. Preparedness for hazardous materials incidents.
10. Response planning for hazardous materials incidents.

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### 11. Recovery from hazardous materials incidents.

#### C. The Police Department and Sheriff's Office.

Law enforcement will assist the Fire Department with warning and evacuation of the public, traffic control and security during hazardous materials incidents. The Police Department will provide traffic barricades when necessary.

#### D. The Department of Human Services.

The Department of Human Services will provide non-emergency health services such as:

1. Implement plans for response to a mass exposure.
2. Coordinate with the Superintendent of Arlington Public Schools to provide proper sanitation and health care in evacuation assembly centers.
3. Ensure water supplies and foodstuffs are free of contamination after cleanup.

#### E. The Department of Environmental Services.

1. Maintains hazardous materials supplies within a warehouse at the Water Pollution Control Plant for the purpose of controlling a chemical spill or leak.
2. Coordinates traffic lights to facilitate evacuation traffic flow.
3. The Department of Environmental Services will provide plans for preventing toxic materials runoff from entering the sewer/storm drain system.
4. Provides heavy equipment, such as front end loaders and dump trucks, etc., with operators.
5. Provides traffic signs and barricades.
6. Ensures that employees are trained in preventive and protective measures.
7. Prevents contamination of the water supply.
8. Assists with decontamination and cleanup, if required.

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9. Provide infrastructure maps to storm drain, sewer, and water systems.

### **F. The Department of Parks and Recreation.**

1. Upon direction from the Office of Emergency Management, close community centers and facilities for use as emergency shelter if more than 7 hotel rooms are needed. Fewer than 7 hotel rooms will be the responsibility of the American Red Cross National Capital Area.

2. Provide entertainment in emergency shelters as required.

3. Provide vehicles and drivers as required.

### **G. Superintendent of Schools.**

1. Provides school facilities for use as assembly and emergency shelters.

2. Provides school buses and drivers for transportation if requested by OEM.

3. Provides staff support, food services and food at evacuation centers as available.

### **H. Department of Management and Finance.**

1. Delegates department/agency heads the authority to make emergency requisition/purchases as required for safety and comfort of evacuees.

2. Maintains records of time, materials and supplies used during hazardous materials emergencies.

3. Applies for federal and state funds and reimbursement as required.

### **I. Area Hospital.**

1. Implements emergency room procedures to treat hazardous materials patients.

2. Implements triage criteria to deal with large numbers of exposed patients.

### **J. American Red Cross of the National Capital Area. (CEMP Annex M)**

1. Provides volunteer staff to support emergency shelters to provide:

- a. Registration
- b. Food distribution

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- c. Clothing distribution
- d. Family and relative contacts

### K. Animal Welfare League of Arlington.

- 1. Provides staff, trailer, and equipment to set up a designated pet shelter.

### L. State Agencies.

The Virginia Department of Emergency Management is the point of contact for coordinating the response of state agencies to support local emergency operations. Arlington County Fire Department and Alexandria Fire Department hazmat teams function as the Northern Virginia Hazardous Materials Regional Response Team. The Virginia Emergency Operations Center will report hazardous materials incidents which meet predetermined criteria, to those state and federal agencies which require notification of the event even though direct assistance is not required.

### M. Federal Agencies.

Federal agencies will provide technical assistance in accordance with their area of responsibility. Other assistance may be provided by agencies within their statutory regulatory or discretionary authority.

### N. SARA Title III Chemical Facilities.

- 1. In the event of a hazardous materials spill or release the following notifications shall be made:
  - a. Immediately, the facility emergency coordinator, or employee, will notify the Arlington County Emergency Communications Center (ECC) by telephone, by dialing 911, and providing detailed information about the spill or release as requested under section V "Operations". Ensure notification to the NRC and VEOC, after ECC has been notified.
  - b. ECC will dispatch emergency personnel and equipment to the incident in accordance with their Standard Operating Procedures.
  - c. ECC will then make the following notifications during all hazardous materials incidents:
    - Community Emergency Coordinator (Arlington County Fire Chief).
    - County Hazardous Materials Coordinator is the Special Operations Chief in the Fire Department.

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2. Maintain a sensor/monitoring system to detect a release of toxic or hazardous chemicals.
3. Maintain trained and properly equipped employees to handle and control toxic and hazardous chemicals.
4. Be responsible for neutralization and cleanup of contamination resulting from the operations at their facility(ies).
5. Maintain and supply to the Local Emergency Planning Committee and Fire Department an inventory of toxic chemicals, their physical characteristics, potential for causing adverse health effects, controls, and interactions with other chemicals.
6. Comply with Community Right-to Know provisions of the Superfund Amendment and Reauthorization Act of 1986, as amended.
7. Prepare a hazard analysis for the facility and provide to the Local Emergency Planning Committee and Fire Department.
8. Minimize the volume of hazardous materials in use or stored at the facility to those essential for business purposes.
9. Maintain safety data sheets on site and supply to Local Emergency Planning Committee and Fire Department.
  1. Safety data sheets shall include the following:
    - a. Designation of the Facility Emergency Response Coordinator.
    - b. Methods and procedures to be followed by facility personnel in the event of a release.
    - c. Methods for determining the occurrence of a release.
    - d. The area or population likely to be affected by a release.
    - e. List available emergency equipment at the facility.
10. Maintain a list of cleanup contractors that are compliant with 29 CFR 1910.120.
11. Maintain a facility safety plan.
12. Facility managers and employees shall receive training and exercise the facility safety plan.

## V. Operations

In the event of a chemical spill or release, the facility emergency coordinator shall notify the Arlington County ECC by telephone, by dialing 911.

A. When the report is made, it is vital that the most complete and detailed information available be given. The following is a listing of the information that should be obtained as promptly as possible. All this information may not be available at the time of the first report, or from a single source, but the effort must be pursued until the facts are complete:

1. Date and time
2. Name of person receiving call
3. Name and telephone number of on-scene contact
4. Location
5. Nearby populations
6. Nature (e.g., leak, explosion, spill, fire, derailment)
7. Time of release
8. Possible health effect, medical emergency information
9. Number of dead or injured; where dead/injured are taken
10. Chemical name of material(s) released; if known
11. Manifest/shipping invoice/billing label
  - a. Shipper/manufacturer identification
  - b. Container type (e.g., truck, rail car, pipeline, drum)
  - c. Rail car/truck 4-digit identification numbers
  - d. Placard/label information
12. Characteristics of material (e.g., color, smell, physical effects), only if readily detectable
13. Present physical state of material (i.e., gas, liquid, solid)
14. Total amount of material that may be released
15. Other hazardous materials in area
16. Amount of material released so far/duration of release
17. Whether significant amounts of the material appear to be entering the atmosphere, nearby water, storm drains, or soil
18. Direction, height, color, odor of any vapor clouds or plumes
19. Weather conditions (wind direction and speed)
20. Local terrain conditions
21. Personnel at the scene
22. Whether the chemical released has been contained

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**B. Levels of Hazardous Materials Situation:**

1. The following flow chart will be used during hazardous materials emergency incidents to indicate the potential emergency condition, a description of the incident, and the emergency contacts and notifications to be made by ECC during the incident.

<b>Minor Incident: Potential Emergency Condition</b>
An incident or threat of a release which can be controlled by the first response agencies and does not require evacuation of other than the involved structure or the immediate outdoor area. The incident is confined to a small area and does not pose an immediate threat to life or property.
Contact as appropriate: <ul style="list-style-type: none"><li>↑ Arlington County Fire Department Hazardous Materials Response Team</li><li>↑ CHEMTREC</li><li>↑ Arlington County Fire Special Operations Battalion Chief</li><li>↑ Arlington County Fire Prevention Office</li><li>↑ Virginia Emergency Operations Center (VEOC)</li></ul>

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**Moderate Incident:  
Limited Emergency Condition**

An incident involving a greater hazard or larger area which poses a potential threat to life or property and which may require a limited evacuation of the surrounding area or the use of additional equipment.

Contact as appropriate:

- ↑ Minor incident notifications
- ↑ Addition Hazardous Materials Teams or Regional Hazardous Materials Response Teams
- ↑ Law Enforcement
- ↑ Office of Emergency Management
- ↑ National Response Center
- ↑ American Red Cross
- ↑ NOVA RHCC- Regional Hospital Coordinating Center
- ↑ Department of Environmental Services
- ↑ Area Hospitals
- ↑ Department of Human Services
- ↑ Department of Parks and Recreation

Note: Refer to Section II - Scope, subsection G, H, and I for additional resources that may be useful in this type of response.

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<b>Major Incident Full Emergency Condition</b>
An incident involving a severe hazard or a large area which poses an extreme threat to life and property and may require a large scale evacuation; or an incident requiring the expertise or resources of county, state, federal, or private agencies/organizations.
Contact: <ul style="list-style-type: none"><li>† Minor and moderate notifications</li><li>† The Office of Emergency Management will notify the County Manager and activate the Arlington County Emergency Operations Plan, including appropriate Emergency Support Functions</li></ul>

**VI. Evacuation Plans**

Evacuation and security for a hazardous materials incident would be in accordance with the County of Arlington Comprehensive Emergency Management Plan (CEMP).

**VII. Training**

Training to respond to hazardous chemical releases is the responsibility of facility operators and County personnel.

A. Training of facility operators is shown on the safety data sheets.

B. Training given to County personnel is as follows:

1. Fire and Emergency Medical Service personnel have had the following training certifications as of March 25, 2014.

<u>Certification</u>	<u>Number Certified</u>
Hazardous Materials Awareness	298

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Hazardous Materials Operations	298
Hazardous Materials Technician	24
Hazardous Materials Specialist	19

2. Emergency Medical Service personnel have had the following basic and advanced EMS training certifications:

<u>Certification</u>	<u>Number certified</u>
ALS (Intermediate / Paramedic)	105
National Registry Paramedic	77
EMT B	298

3. Training will continue to maintain proficiency as additional courses become available.

4. Consistent County wide training is based on standardized curricula established at the state and the national level.

5. The Arlington County Hazardous Materials Team is a Level IIIE. The Arlington County Fire Department minimally staffs the Hazardous Materials Team with 5 HM Technicians/Specialists.

**VIII. Exercising Hazardous Materials Plan**

A. A hazardous materials exercise will be conducted each year if required by VDEM.

B. Resources for hazardous materials exercises are available as follows:

1. Federal Emergency Management Agency, <https://www.fema.gov/exercise>
2. State Department of Emergency Services
3. U.S. Department of Transportation. [www.federalgrantswire.com](http://www.federalgrantswire.com)