

To: Nadine Graham, PHMSA
Karen Lynch, PHMSA

From: Edward T. Doyle, Jr. PhD, Co-chair, County of Delaware, Pennsylvania Local Emergency Planning Committee

Re: U.S. DOT, PHMSA Technical Assistance Grant (TAG) -2017
County of Delaware, Pennsylvania
Grant Agreement #693JK31742007

Mid-term Report for Grant #693JK31742007

Training and Exercises

The Delaware County LEPC conducted a **Hazardous Materials Seminar** on Saturday, October 14, 2017 at the Marple Campus of Delaware County Community College from 8:30 am to 3:30 pm. The seminar was provided for emergency response personnel in and around Delaware and Chester County, PA

The agenda included the following topics:

- Delaware County Hazardous Materials Overview
- Pipeline Basics 101
- HF Acid and BF3 Overview
- Energy Transfer Mariner Emergency Response Operations
- Colonial Pipeline Case study
- High hazard flammable liquids trains: Facts, Myths & Observations
- PECO - Handling natural gas emergencies

The agenda is included as an attachment. The cost was \$5,500.00 paid to Delaware County Community College.

Pipeline Emergency Exercise

The Delaware County LEPC and Delaware County Department of Emergency Services sponsored a **Pipeline Emergency Response Tabletop Exercise** on Tuesday, December 5, 2017 from 6:00 PM to 9:30 PM at the Upper Chichester Township Field House in Aston, PA.

Some 140 persons attended the exercise including [active members](#) of most parties that would be involved in a real emergency scenario. This included fire, EMS, State and local police, FBI, DHS, school district, township maintenance staff, US Coast Guard as well as pipeline operators.

The exercise was designed to simulate a realistic and plausible transmission pipeline incident along a right-of-way within the County. It included discussions involving response actions for first responders, emergency management agencies, public works and highway officials, school officials, pipeline operators and others related to incident response.

The exercise goal was to validate a recently drafted emergency planning guidance document and to allow others such as community officials, school district personnel and other emergency preparedness agencies to review and exercise their respective plans and coordination efforts.

Some comments received from the exercise were:

- It became apparent that these folks were quite adept at performing their respective tasks.
- The scenario was realistic. It was well considered and included all parties. It involved an unknown operator working somewhat near a protected area, and close to a school and Interstate 95. Since we cannot predict where an emergency will take place this was an invaluable lesson.
- The room was divided into two sections. These were on-site staff and remote, support staff. Communications issues became evident.
- Standard IC forms are crucial to passing on critical information to replacement shifts as well as for the JIC. The lessons that we have been taught about Incident Command and Unified Command hit home harder than they previously had.

The LEPC requested proposals from 3 vendors. The contract was awarded to Compliance Associates, Inc. at the cost of \$7,400.00. The exercise was videotaped for review of specific topics such as incident command/unified command. The cost was \$1,000.00. An overview video of the exercise is available on the Delaware County LEPC web page – www.lepc.org.

Planning

The Delaware County LEPC in conjunction with Delaware County Emergency Services conducted a ***Pipeline Planning Initiative in Delaware County***. The focus of the Initiative was all pipelines traversing the county.

The planning team included local pipeline companies, a local school district, emergency services planners, LEPC members, emergency responders, state and federal agencies such as the Department of Homeland Security and local community members.

The goal of the initiative was to produce a guidance document to assist local municipalities and their emergency personnel in developing or reworking operational response plans. The planning team was divided into 4 subcommittees – Education, Product Information, Emergency Response and Communication. The subcommittees merged eventually into two subcommittees – Education/Communications and Product Information/Emergency Response. The information gathered by these committees was compiled into a guidance document – ***the Delaware County Pipeline Emergency Plan Guidance Document*** - for consideration by municipalities and their first responder for inclusion or updating in their operational plans.

The document includes: a county wide municipal pipeline products matrix, product information sheets for emergency responders and non-responders (this version is geared to the public),

pipeline safety information, job safety or hazard analysis for various response scenarios, an incident command overview, a generic site safety plan for use on scene, an incident action plan safety analysis (ICS-215a), the ICS 201 along with a pipeline response action analysis and various appendices.

This document has been reviewed for security reasons and is available for sharing with other agencies or jurisdictions as a template for their specific emergency planning guidance document. Examples of the Product Information Sheets are attached. A copy of the Guidance Document is available upon request.

The Delaware County Pipeline Emergency Planning Guidance document will be published and shared through Delaware County Emergency Services with all municipalities.

In addition, the Planning team and others worked on revisions to the ***Delaware County, Pennsylvania Emergency Preparedness Guide***. The Guide, which is a citizens guide to emergency preparedness information, is distributed through a variety of means including local service stations, local libraries and the Emergency Services Volunteer Outreach program, was revised to include pipeline safety information, hot and cold weather safety information and utility outage safety information. The guide also includes information for the general public on a wide variety of emergency issues such as evacuation, sheltering, family planning kit, communications plans and pet emergency plans.

The Guide is currently in the bid process for printing. The LEPC generally prints some 15-20,000 guides. A copy of the Emergency Preparedness Guide is available on the Delaware County LEPC website www.lepc.org.

School Planning

As an adjunct to the Pipeline Planning Initiative a committee has been established to concentrate on school planning for pipeline and other emergencies. The committee, which is comprised of emergency responders, school curriculum personnel, emergency management personnel, local industry personnel and community members, has decided to concentrate on various emergencies. The concept is to draw student focus to emergency awareness and outlining the command structure, leadership in emergency response.

At this point, the plan is to develop for middle school teachers a curriculum to help students better understand emergency response, various roles and responsibilities in emergencies, how to react to emergencies, how to assist in emergency response and the different forms of response.

In addition to the curriculum, the committee intends to develop educational activities as teacher's resources to assist in reinforcing the material. An activity book, a video, hopefully, with student participation and interactive activities are under consideration. A local school district – Rose Tree Media –is engaged in the planning process with a curriculum specialist and other district educational personnel.

Since some pipelines in Delaware County run in relatively close proximity to schools the planning team is developing an outreach program relative to emergencies. The program will encourage a review of school plans, especially those within proximity to a pipeline(s), product being moved, and school familiarization with pipeline basics and response techniques. This would be worked with municipalities through their Emergency Management Coordinator outreach by the county and through the Delaware County Intermediate Unit, the umbrella organization for the 15 Delaware County schools districts.

Emergency Response Equipment

The Delaware County LEPC, as outlined in the grant request, purchased a portable weather monitoring station which will be utilized by the county in various emergency responses, especially in the event of a pipeline emergency in the vicinity of a school.

The station was purchased through Columbia Weather Stations at a cost of \$7,931.00.

Grant Topic	Objectives	Accomplishments	Costs
Training and Education	<ul style="list-style-type: none"> • Conduct HAZMAT/Pipeline Seminar • Conduct a Pipeline Tabletop exercise 	<ul style="list-style-type: none"> • Seminar conducted on 10/14/2017 • Pipeline Emergency Exercise conducted 12/5/2017 • Video the exercise for future training 	<p>\$5,500.00</p> <p>\$7,400.00</p> <p>\$1,000.00</p>
Planning	<ul style="list-style-type: none"> • Conduct a pipeline planning initiative • Develop a Pipeline Emergency Plan Guidance Document • Revise/print the Delaware County Emergency Preparedness Guide 	<ul style="list-style-type: none"> • Pipeline planning initiative has been conducted • A Pipeline Emergency Plan Guidance Document has been developed • The Delaware County Emergency Preparedness Guide has been revised and is in bid proposal for printing 	<p>\$ 225.00</p> <p>\$9,000.00</p> <p>\$ 995.00</p> <p>\$ 845.00</p>
Equipment	<ul style="list-style-type: none"> • Purchase a portable weather monitoring station 	<ul style="list-style-type: none"> • Purchased a portable weather monitoring station 	<p>\$7,931.30</p>
Grant Topic	Objectives	To be accomplished	Costs
Training and Education	<ul style="list-style-type: none"> • Conduct an additional Pipeline exercise 	<ul style="list-style-type: none"> • A request has been made by a municipality to conduct a second tabletop exercise. 	<p>\$5,000.00-\$7,000.00</p>
Planning	<ul style="list-style-type: none"> • Complete school curriculum and related educational activities related to emergency awareness 	<ul style="list-style-type: none"> • Planning team work in progress – educational partners are engaged in the process. 	<p>\$25,000.00</p>
	<ul style="list-style-type: none"> • Revise/print the Delaware County Emergency Preparedness Guide 	<ul style="list-style-type: none"> • The Emergency Guide is in the county bid process 	<p>\$12,000.00</p>

Comparison - Grant Objectives, Accomplishments and Costs

For the most part the Delaware County grant objectives outlined have either been accomplished or are in progress working toward being listed as accomplished.

The only delays have been

- The printing of the Emergency Preparedness Guide. The Guide, which is aimed at county residents has been updated, including pipeline information, redesigned and is currently in the county bid process. Bids will be opened on or about May 21th and printing complete by June 15, 2018. The cost is anticipated to be in the \$10,000.00-\$15,000.00 range.
- The schools portion of the planning area has begun in earnest. Two local school districts have been asked to join in the planning and development process. Anticipated to begin in the January timeframe, for a variety of reasons, some related to pipeline construction activities and school calendars, educational personnel have not been able to join in the process until April. One local school district has committed a curriculum specialist and will engage other educational specialist in the process. Educators have been in discussions and meetings with the committee since early April. The Delaware County Intermediate Unit, an umbrella group for all county school districts, will be engaged as the committee moves forward.

At this point, the Pipeline Planning committee has divided into 5 working subgroups to gather specific objectives for the educational curriculum and to research specific topical information in the areas of hazardous materials, fire, medical, severe weather and active Intruder relative to student understanding of emergency awareness and preparation. The final product is anticipated to be in the \$25,000.00 cost range.

- An additional pipeline exercise has been discussed. The Sunoco Mariner 2 pipeline traverses one township that has recently revised their Emergency Plan. They attended the tabletop exercise in December and have asked the Delaware County LEPC and Emergency Services to conduct a similar exercise for their township to test their plan. The timing and topics are presently being discussed. The cost would be in the \$5,000.00-\$7,000.00 range.