## Participants

(see participants list below)

## Meeting Agenda / Objectives / Discussion Topics

#### Discussion Notes

* **Integration of pipelines into Virginia Hazard Mitigation Plan**. Robbie Coates, VDEM, discussed the effort and purpose to integrate pipelines into Virginia’s hazard mitigation planning. Documents include the Commonwealth of Virginia Emergency Operations Plan, Standard and Enhanced Hazard Mitigation Support Annex 3, Hazards Identification and Risk Assessment (HIRA).
* Pipelines will be addressed in Sections: 3.4, State, Critical Facility Analysis; 3.7, Flooding; 4.0 Capability Assessment, and in the mitigation action matrix.
* With recent experience of Hurricane (“Super Storm”) Sandy in 2012, are there additional state-level actions that should/could be taken for emergency management relative to pipelines? This is a good area for further discussion. One approach is to initiate discussions between the VDEM organizations (e.g., preparedness and recovery). A mitigation action to review Virginia’s preparedness for pipeline emergencies will be added.
* Should include in Virginia’s Hazard Mitigation Plan (HMP) information regarding funding and how development of state and local plans can be tied to available funding (e.g., PHMSA grants).
* **Reviewing the draft edits to Section 3.4**. They describe energy pipelines in general and information that can be found in NPMS. It also identifies the products delivered by pipelines and the source of risk (incidents) from pipelines.
* Additional draft edits to Section 3.4 regarding land use planning as a mitigative approach. VDEM suggests a more appropriate location for such discussion would be Section 3.2 of the Virginia HIRA. (Note: VDEM subsequently changed this to move the information to Section 4.0)
* Rebecca Craven (PST) recollected that the inclusion of gathering and distribution pipelines in the VDEM emergency management plans and HIRA was previously discussed. Robbie Coates suggests that the best place for inclusion of those lines is in the local emergency management plans. Some discussion of distribution and gathering should be included in the state plan to alert local jurisdictions that they should consider those lines in their plans.
  + **ACTION**: Julie Halliday will send a graphic depicting the relation of gathering, transmission, and distribution lines to Robbie Coates. She will also add a paragraph regarding gathering and distribution lines. (Note graphic was eliminated but the description of types of pipelines was expanded).
* Rebecca also commented that the state plan could/should also add a “heads up” that transmission pipelines can/should be included as a primary hazard, not just infrastructure that is impacted by natural hazards. Thus, threat assessments could be done against the pipeline hazard directly.

VDEM is not yet prepared to follow that course (pipeline as primary hazard) in its emergency plan. However, a statement could be added to clearly note that pipelines are not yet being considered as primary hazards in the VDEM HMP. It should be noted that mitigation actions taken to address pipeline risks resulting from the impacts of natural hazard events will also help address risks from pipelines as a primary hazard.

Rebecca also considers that at some point attention should be given by local governments to the citing of pipelines.

* **Reviewing the draft edits to Section 3.7, Flooding.**
* Pipeline hazards will be addressed in general in both the Flooding and Earthquake sections in VDEM’s HIRA. Additional consideration may be given to addressing some pipeline information in the Landslide section. (Note: only flooding will have pipeline specific information after review and comment by VA Tech GIS).
* Draft edits to Section 3.7 regarding pipelines were first added to historical occurrences (Locust Grove flooding, 12/18/1989). Three additional cases of significant pipeline incidents (not in Virginia) during flooding conditions were added. Additional identification of gas pipeline failures in conjunction with Hurricanes Katrina and Sandy could be added.
* Additional edits to Section 3.7 made in Impact and Vulnerability subsection. Good to include ancillary impacts of pipeline failures on overall recovery efforts from a natural hazard event (e.g., loss of fuels to electrical generating stations).
* Additional draft edits to Section 3.7 made in Local Plan Changes subsection. Example given of changes made by Fairfax County following a 1993 hazardous liquid pipeline event. Robbie Coates notes that some of this could be included in Section 3.2 and in Chapter 4, Capabilities Assessment. I.e., raise the visibility beyond just flooding and earthquake events. PHMSA grants information could also be included in Chapter 4 as well as discussion of other assistance that PHMSA could provide to local jurisdictions. (Note: subsequent email changed the location of this information to section 4.0).
* Additional draft edits to Section 3.7 made to add info about emergency preparedness and where/how emergency planners should contact pipeline operators. This should instead be included as a mitigative action.
* FERC suggests adding recognition that many natural hazards are considered to a degree in pipeline designs. However, some events can exceed the design limitations of pipeline systems. Robbie Coates suggests that information can be included in the sections on the natural hazards themselves. Robbie Coates suggests that this information also be included at a higher level in the VDEM document (e.g., Section 4.0) instead of within each hazard section.
* **ACTION**: Julie Halliday will coordinate and send new edits to Robbie by end of this week (11/17/12).

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