

Scenario Facilitated Discussion Two - Cyberattack

Scenario – Part One

On February 21st, at 3:15 PM, a cyberattack, targeting critical infrastructure systems, was reported to have occurred. While detection equipment provided early warning, allowing for many systems to be taken off-line, extensive damage has been reported at key points along the oil and gas supply chain (e.g., refineries, pipelines) servicing your region. The result is a significant reduction in fuel supply to your state. The Governor has declared a State of Emergency and activated the State Emergency Operations Plan to respond to the incident.

Situation reports indicate that essential service providers (e.g., law enforcement, fire, emergency medical services) are encountering challenges with securing fuel. Additionally, industry partners have suggested that based on the scope of the cyberattack, normal fuel supply will not be available for at least one month.

You are part of a Fuel Supply Task Force for your state and the Governor has requested that a “*Petroleum Priorities for Essential Service Programs*” program be implemented to ensure essential service providers have adequate fuel supply to execute their respective responsibilities.



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Scenario Assumptions

- The Governor has issued a State Declaration of Emergency.
- Petroleum suppliers are unable to provide sufficient fuel quantities to priority end-users via contractual/non-contractual agreements.
- Priority end-users are not receiving sufficient amounts of fuel to maintain essential public services.
- The Governor has implemented “*Waivers of Federal Motor Carrier Safety Regulations (Driver Hours of Service)*” and “*Waivers of Environmental Fuel Specifications.*”
- Emergency management and industry partners are monitoring petroleum supply to the region.
- A public information and messaging strategy has already been developed to deliver information related to the implementation of fuel shortage response programs/measures.
- The incident has regional impacts and is anticipated to last a minimum of one month.
- Cascading critical infrastructure impacts are likely.



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Discussion Objectives

- Execute the provisions required to implement the “*Petroleum Priorities for Essential Service Programs*” program in accordance with implementation procedures (Guidance for State on Petroleum Shortage Planning Response, p.34).
- Discuss implementation considerations for the “*Retail Gas Station Priorities for Essential Services*” measure (Guidance for State on Petroleum Shortage Planning Response, p.70) when essential services do not possess adequate on-site fuel storage capabilities.



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Discussion Questions

Programs/Measures Decisions

- Under what conditions would a priority end-user program be useful?
- What are the advantages and disadvantages of implementing this program?

Communications/Information Sharing

- Who is responsible for activating this program and how will it be activated?
- What information is required to implement this program?
- What are the *internal* communications requirements associated with program delivery?
- What are the *external* communication requirements associated with program delivery?

External Coordination

- How will program-specific disputes be resolved? Who is responsible for resolving these disputes?

Additional Considerations/Measures

- If essential service providers do not have sufficient on-site fuel storage capabilities and rely heavily on retail gas stations for their fuel supply, are there any additional programs/measures that could be implemented?



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Scenario – Part Two

You begin receiving reports that the cyberattack has caused significantly more damage than previously anticipated. Industry partners are suggesting that cascading impacts are likely and may affect multiple critical infrastructure sectors (e.g., communications, energy).

ESF #12 representatives from neighboring states have requested a conference call to coordinate regional fuel requirements and discuss cascading impacts to critical infrastructure and how it may impact the delivery of fuel capabilities to the region.



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Discussion Objectives

- Identify and discuss alternative fuel shortage response programs/measures and conditions for implementation.
- Identify mechanisms to make fuel shortage response program/measure implementation more regionally focused.
- Discuss delivery of fuel capabilities in the context of cascading critical infrastructure impacts.

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Discussion Questions

Regional Coordination

- Based on the scenario above, how could states develop and implement more regionally-focused programs/measures to address petroleum shortages?
- Who would be responsible for facilitating interstate/regional coordination as it relates to the implementation of petroleum response programs/measures?

Interdependencies

- How might damage to multiple critical infrastructure sectors disrupt the implementation of petroleum response programs/measures?

Prioritization

- How will petroleum products be prioritized in the event of cascading critical infrastructure impacts?
- Who will be responsible for coordinating the prioritization of petroleum resources?

