

# Operationalizing Gas Contingency Background

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MIC Special Session  
March 9, 2018



**Risks / Dependencies:**  
 Extreme Weather | Physical/Cyber Attacks | Fuel Source/Security

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### Prepare

- Assess Risks**  
Targeted risk management
- Strengthen Infrastructure**  
Make critical assets less vulnerable
- Increase Coordination**  
Cross-sector & public/private partnerships

### Operate

- Strengthen Operations**  
Expand coordination and communications
- Enhance Continuity**  
Planned response exercises
- Apply Innovative Approaches**  
Microgrids & distributed energy resources

### Recover

- Stabilize the System**  
Prioritize interdependent infrastructures for system survivability
- Regain Critical Functions**  
Balance industry and societal priorities
- Make Enhancements Based on Lessons Learned**

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# Operationalize Gas-Electric Contingencies Purpose & Intent

Created operating procedure to evaluate gas infrastructure redundancy and operationalize gas contingencies under normal mode and conservative mode (cyber/physical threats) in 2017.

- ✓ Define Gas infrastructure redundancy criteria
- ✓ Refine gas unit exposure time (minutes versus hours)
- ✓ Define Operating procedures to include triggers, thermal/voltage reactive limits and reserve requirements
- Define new process with
  - ✓ Decision flow diagram
  - ✓ Outline assessment steps in Operating Memo and PJM Manuals

