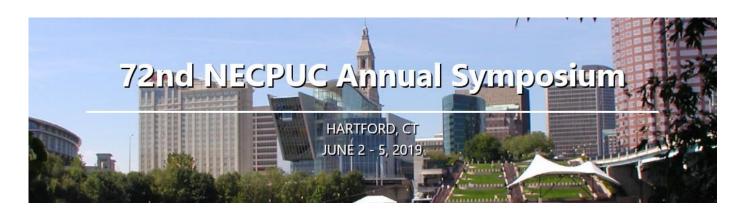
#### Fireside Chat: Defining and Discussing Resilience?



- Since entering the regulatory lexicon in recent years,
  <u>resilience has come to mean different things to different</u>
  <u>stakeholders, depending on context and perspective</u>.
- Our panelists will discuss concrete considerations for resilience-oriented projects and examples of pilots from across the country.

#### Overview of Fireside Chat

- Finding a common language
  - Each speaker will define "Resilience"
- What's out there ... thoughts from the experts
  - Micro-perspective (Daniel McGahn)
  - Macro-perspective (Erik Limpeacher)
- Questions and Answers
  - Moderator-based
  - Audience-based (time permitting)

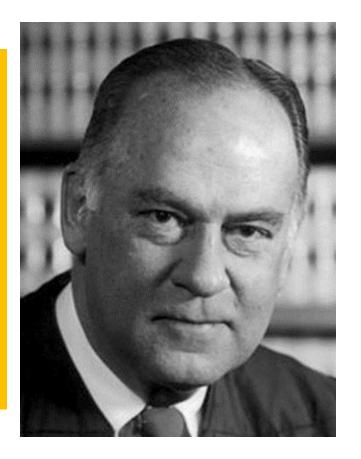


#### **Justice Potter Stewart**

"I shall not today attempt further to define ... and perhaps I could never succeed in intelligibly doing so. But I know it when I see it."

Stewart's Concurring Opinion in

Jacobellis v. Ohio, 378 U.S. 184 (1964)



## Defining Resilience – Not an Easy Task

#### 162 FERC ¶ 61,012 UNITED STATES OF AMERICA FEDERAL ENERGY REGULATORY COMMISSION

Before Commissioners: Kevin J. McIntyre, Chairman; Cheryl A. LaFleur, Neil Chatterjee, Robert F. Powelson, and Richard Glick.

Grid Reliability and Resilience Pricing

Docket Nos. RM18-1-000

Grid Resilience in Regional Transmission Organizations and Independent System Operators AD18-7-000

ORDER TERMINATING RULEMAKING PROCEEDING, INITIATING NEW PROCEEDING, AND ESTABLISHING ADDITIONAL PROCEDURES

(Issued January 8, 2018)

1. The Commission previously has taken steps with regard to reliability and other matters that have helped to address the resilience of the bulk power system. The Commission recognizes that we must remain vigilant with respect to resilience challenges, because affordable and reliable electricity is vital to the country's economic and national security. As explained below, we are terminating the proceeding we initiated in Docket No. RM18-1-000 to address the Proposed Rule on Grid Reliability and Resilience Pricing (Proposed Rule) submitted to the Commission by the Secretary of Energy. 1 Nonetheless, we appreciate the Secretary reinforcing the resilience of the bulk power system as an important issue that warrants further attention. To that end, we are initiating a new proceeding in Docket No. AD18-7-000 to specifically evaluate the resilience of the bulk power system in the regions operated by regional transmission organizations (RTO) and independent system operators (ISO). In this order, we direct each RTO and ISO to submit information to the Commission on certain resilience issues and concerns identified herein to enable us to examine holistically the resilience of the bulk power system. The resilience of the bulk power system will remain a priority of this Commission. We expect to review the additional material and promptly decide whether additional Commission action is warranted to address grid resilience.

1 Grid Resiliency Pricing Rule, 82 Fed. Reg. 46,940 (Oct. 10, 2017).

#### 162 FERC ¶ 61,012

Grid Reliability and Resilience Pricing and Grid Resilience in RTOs/ISOs (RM 18-1 and AD18-7 respectively)

- "[E]vident that there is currently no uniform definition of resilience used across the electric industry"
- "[W]e think its appropriate to first achieve a common understanding of what resilience is"

#### FERC's Suggested Definition of Resilience

■ "The ability to withstand and reduce the magnitude and/or duration of disruptive events, which includes the capability to anticipate, absorb, adapt to, and/or rapidly recover from such events" (See: 162 FERC ¶ 61,012 at 13)



#### Overview of Fireside Chat

- Finding a common language
  - Each speaker will define "Resilience"
- What's out there ... thoughts from the experts
  - Micro-perspective (Daniel McGahn)
  - Macro-perspective (Erik Limpeacher)
- Questions and Answers
  - Moderator-based
  - Audience-based (time permitting)



# Top Answers on the Board



- We asked 100 NECPUC Symposium attendees to identify what they perceive to be threats to resilience ...
- We have the top answers on the board





