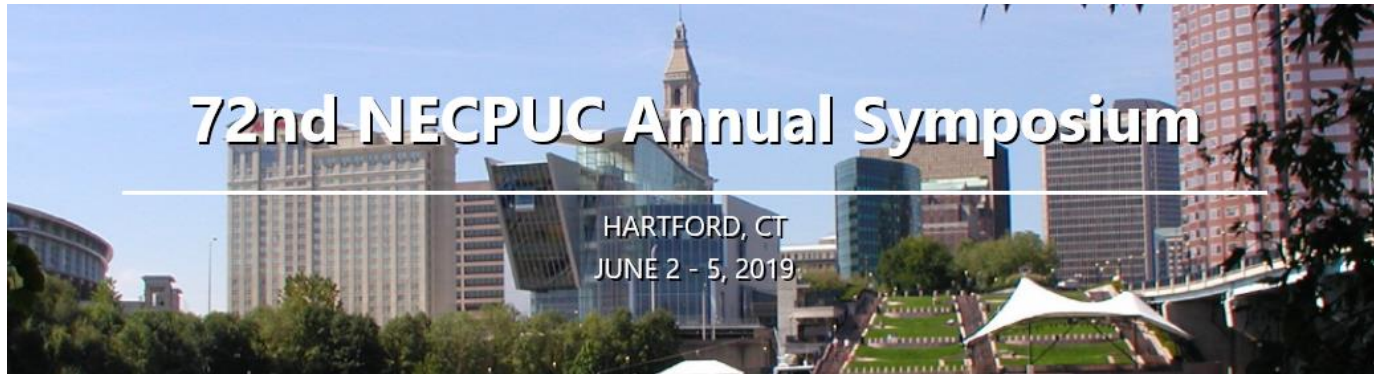


# Fireside Chat: Defining and Discussing Resilience?

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

# Overview of Fireside Chat

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- 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)

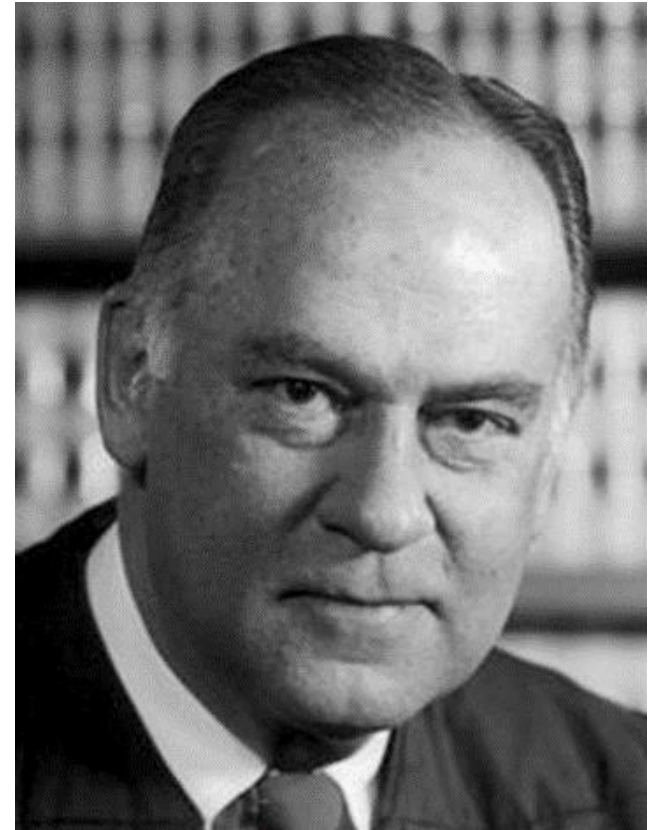
BOUNCE STRETCHY  
FLEXIBLE TOUGH  
MALLEABLE ELASTICITY RELIABLE  
**RESILIENCE**  
PLIABLE SPRINGY  
BENDING STRONG  
NIMBLE  
WEATHERED

# Justice Potter Stewart

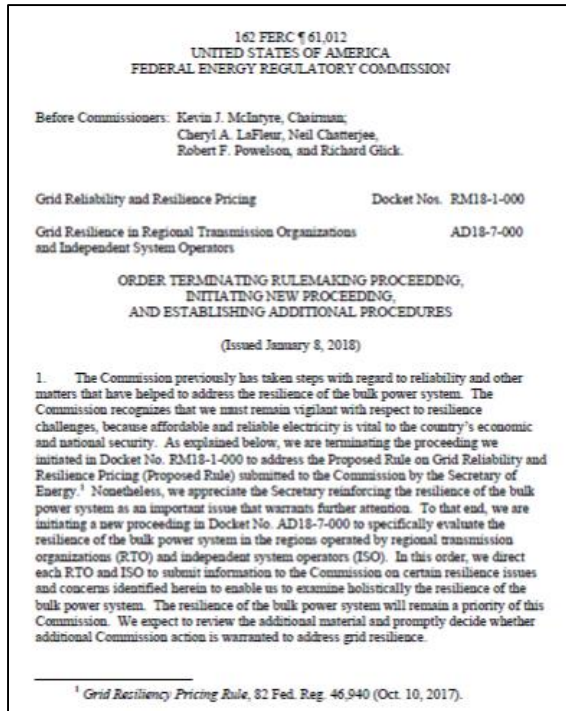
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“I shall not today attempt further to define ... and perhaps I could never succeed in intelligibly doing so. **But I know it when I see it.**”

Stewart’s Concurring Opinion in  
*Jacobellis v. Ohio*, 378 U.S. 184 (1964)



# Defining Resilience – Not an Easy Task



162 FERC ¶ 61,012  
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

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- “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

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# Top Answers on the Board

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



# Perceived Threats To Resilience



1	
2	
3	
4	

***Note: For illustrative purposes only; no survey and no rankings were completed***



# Perceived Threats To Resilience



Extreme Weather

2

3

4

***Note:** For illustrative purposes only; no survey and no rankings were completed*

# Perceived Threats To Resilience



Extreme Weather

2

3

Fuel Security

***Note: For illustrative purposes only; no survey and no rankings were completed***



# Perceived Threats To Resilience



Extreme Weather

2

3

Fuel Security



***Note: For illustrative purposes only; no survey and no rankings were completed***

# Perceived Threats To Resilience



Extreme Weather

2

3

Fuel Security

***Note: For illustrative purposes only; no survey and no rankings were completed***



# Perceived Threats To Resilience



Extreme Weather

Cyber Attack

3

Fuel Security

***Note:** For illustrative purposes only; no survey and no rankings were completed*

# Perceived Threats To Resilience



Extreme Weather

Cyber Attack

Physical Attack

Fuel Security

***Note: For illustrative purposes only; no survey and no rankings were completed***



# Perceived Threats To Resilience



**Extreme Weather**

**High Demand/Use**

**Cyber Attack**

**EMP/GMD**

**Physical Attack**

**Aging Infrastructure**

**Fuel Security**

***Note: For illustrative purposes only; no survey and no rankings were completed***