

# Exercises and Planning

Frank Calcagno  
FERC

San Francisco, CA January 28, 2004

# Revisiting the FERC Exercise Cycle

- **18 CFR Part 12.25(b): “...annually test the state of training and readiness of key licensee or applicant personnel...” (ANNUAL DRILL)**
- **Ch. 6, Eng. Guidelines (EAP), 6-4.3 D: “The FERC will periodically be requiring, as a minimum, that a functional exercise of an EAP be conducted by a select number of licensees. A particular licensee should plan on being requested to conduct a functional exercise about once every five years. It should be noted that the functional exercises will be conducted on a licensee basis. Therefore, a licensee should not be expected to conduct a test more than once every five years for one of its projects. Unless there is good reason, licensees will be required to choose a different project for EAP testing each five year cycle...” (FUNCTIONAL EXERCISE)**

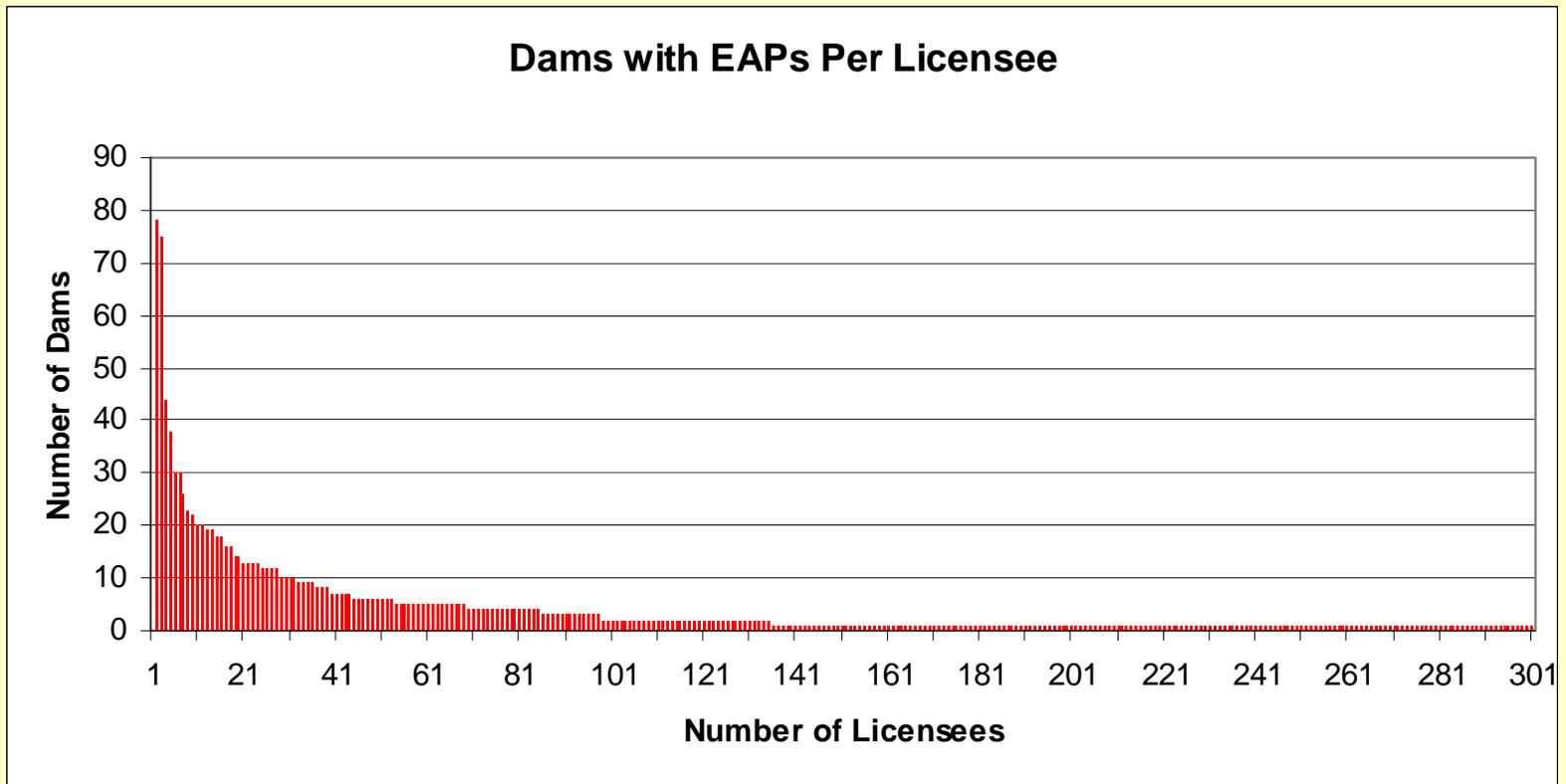


# Revisiting the FERC Exercise Cycle

- How many jurisdictional dams have EAPs?  
.1,250
- Who owns these dams?
- How does ownership affect exercises?
- How does the “new way of business” affect cycle?



## Dams with EAPs Per Licensee



300 Licensees with Dams with EAPs (1,250 Dams)

Average Number of Dams with EAPs per Licensee = 4

Median Number of Dams with EAPs per Licensee = 1

**2 Licensees own 75 or more Dams w/EAPs (78, 75)**

**6 Licensees own 30 or more Dams w/EAPs**

**11 Licensees own 20 or more Dams w/EAPs**

**31 Licensees own 10 or more Dams w/EAPs**

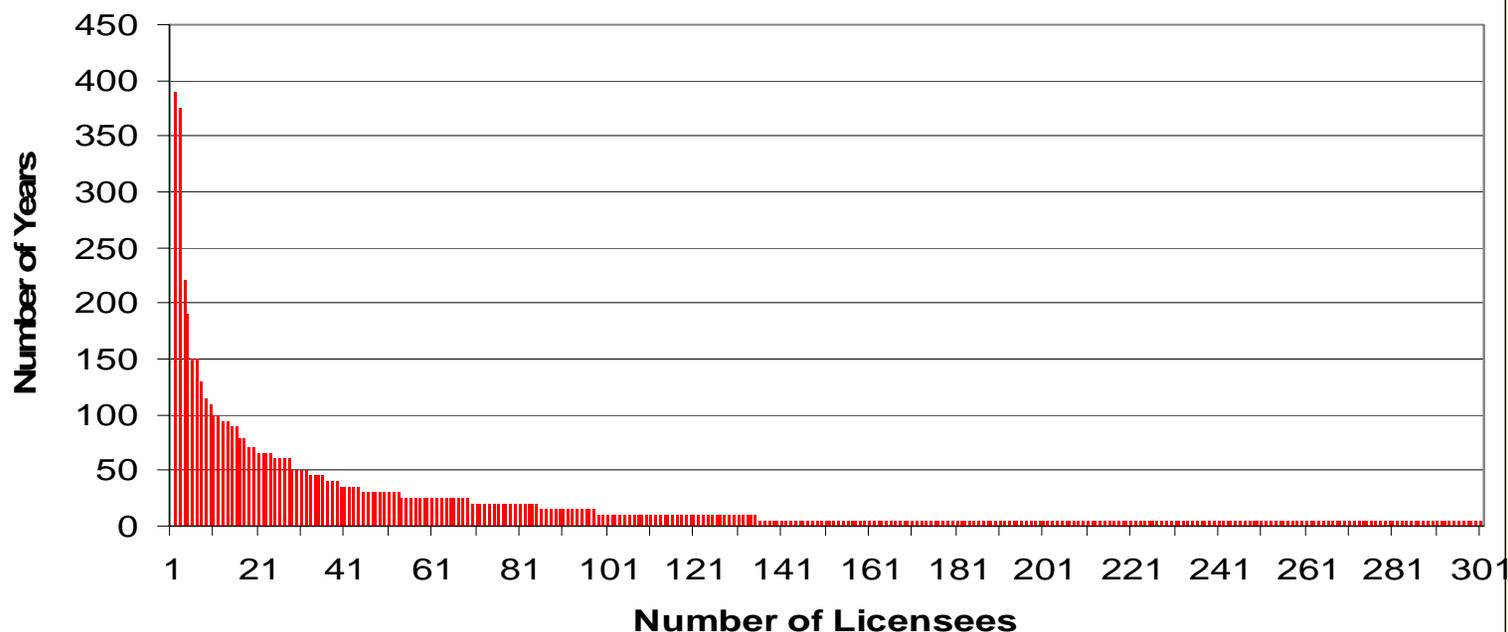
**68 Licensees own 5 or more Dams w/EAPs**

**134 Licensees own more than 1 Dams w/EAPs**

**166 Licensees own 1 Dam w/EAPs**



## Number of Years to Exercise a Licensee's Entire Inventory



Average Number of Years per Licensee = 20

Median Number of Years per Licensee = 5

**2 Licensees would take more than 375 Years**

**6 Licensees would take 150 or more Years**

**11 Licensees would take 100 or more Years**

**31 Licensees would take 50 or more Years**

**68 Licensees would take 25 or more Years**

**134 Licensees would take 10 or more Years**

**166 Licensees would take 5 Years**



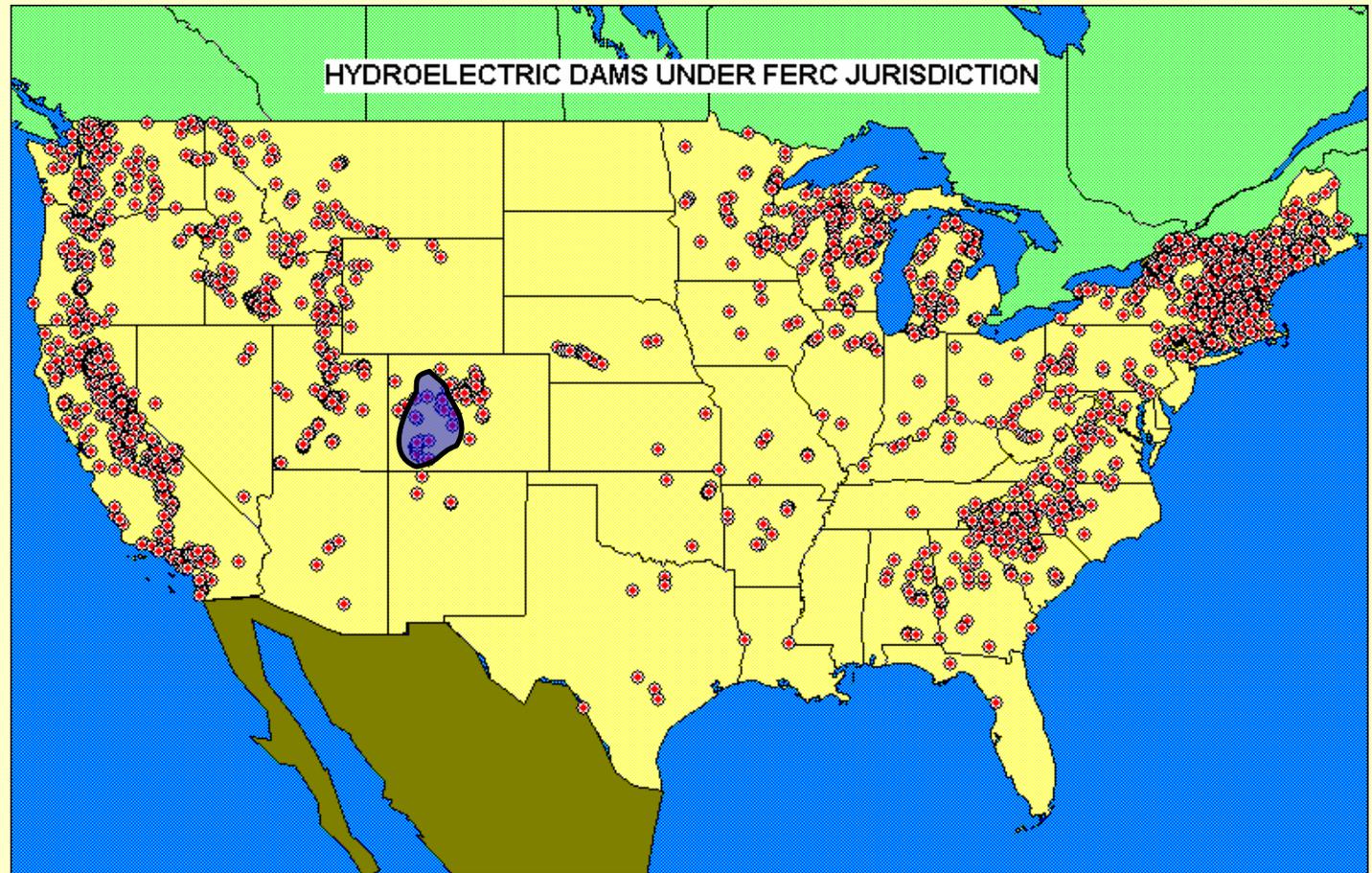
# Revisiting the FERC Exercise Cycle

Out of a random sample of functional and tabletop exercises,  
out of 470 exercises,  
there were 255 different dams exercised (the remaining 215 were repeats).

This can be expected when a licensee only owns one or two dams requiring testing.

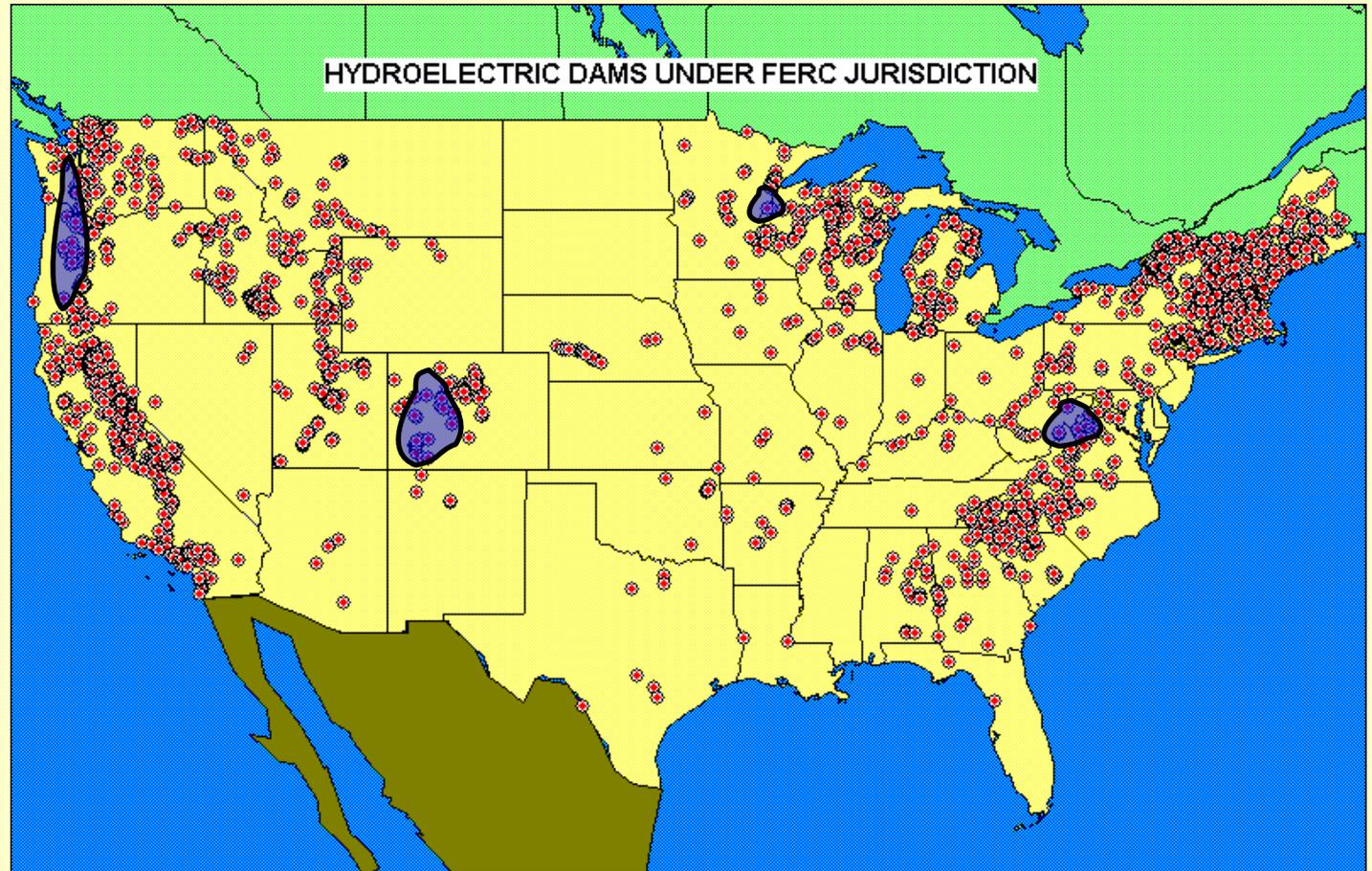


# Revisiting the FERC Exercise Cycle



The “former norm”...a hypothetical Licensee.

# Revisiting the FERC Exercise Cycle



The “current trend”...a hypothetical Licensee.

# Revisiting the FERC Exercise Cycle

Therefore, a new means of choosing which dams to exercise, and at what cycle, is needed.

- **Owners of multiple dams in multiple FERC Regions may need to test more often:**
  - **How can this be done equitably?**
  - **How can we ensure that proper testing is completed?**
- **Multiple dams at the same reservoir and/or development may help (if tested together).**
- **Dams owned by multiple licensees in the same drainage may be able to combine efforts.**
- **Other ideas?**



# Emergency Planning at Hydropower Projects

## Increased Emphasis on Recovery and Operation Plans

- In the Event of a Terrorist Attack, or Natural Disaster, a Recovery Plan Will:
  - Reduce Consequences to the Nation
  - Reduce Consequences to the Dam Owner
  
- In the Event of a Terrorist Attack, or Natural Disaster, an Operation Plan Will:
  - Provide Dam Owners with Best Possible Options



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## **Open Discussion**

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