

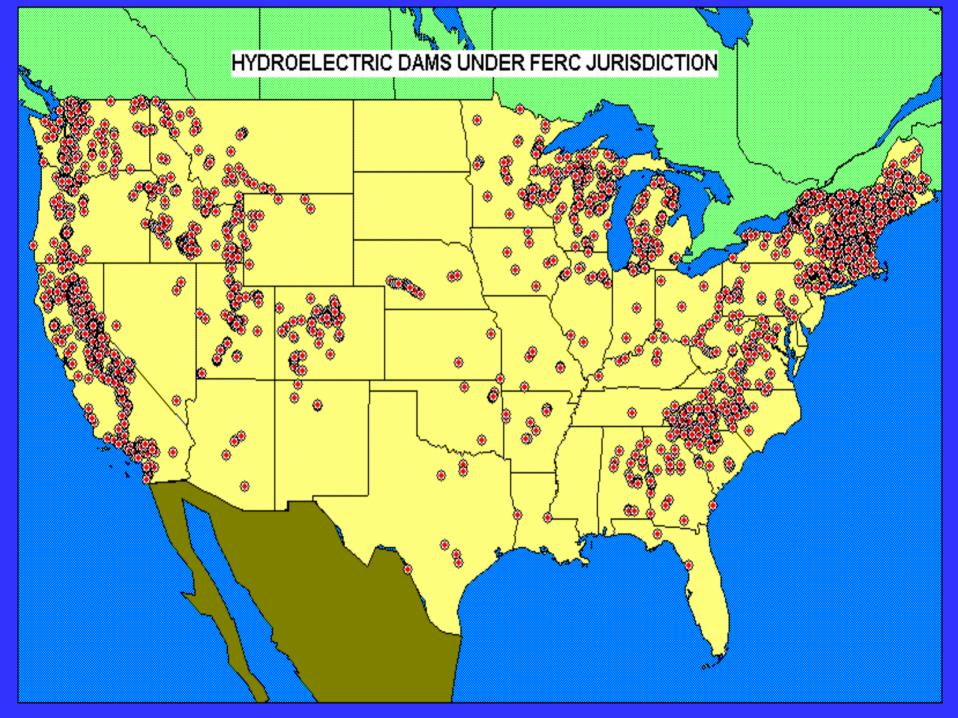
FERC DAMS By Hazard Potential

High 764

Significant 203

Low 1,568

Total 2,535



Division of Dam Safety and Inspections Regional Office Boundaries



Determined by Hazard Potential Classification

 Hazard Potential Classification Reviewed Annually

• IDF Reviewed Every Five Years

Federal Guidelines FEMA 333 For Hazard Potential Classification

Hazard Potential Classification Summary Table

Hazard Potential Classification	Loss of Human Life	Economic, Environmental, Lifeline Losses
High	Probable. One or more Expected	Yes (but not necessary for this classification)
Significant	None Expected	Yes
Low	None Expected	Low and generally limited to owner

FERC For Hazard Potential Classification

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Chapter 2 of the Engineering Guidelines

 Selecting and Accommodating Inflow Design Floods for Dams

• IDF Determined by Hazard Potential Classification

For Low Hazard Dams

100 Year Flood

Significant and High Hazard Potential Dams

- Probable Maximum Flood (PMF)
- IDF less than PMF allowed if no impact

IDF Less than the PMF

- Allowed if failure of the dam at floods above the IDF up through the PMF do not constitute a hazard to downstream life or property
- Requires Dambreak Studies
- Requires annual review of downstream development to ensure IDF is still applicable

Significant and High Hazard Potential Dams

- Probable Maximum Flood (PMF)
- IDF less than PMF allowed if no impact

FERC Inflow Design Flood (IDF) Guidelines Revisions to Chapter 2

- •Enhanced discussion on 2-foot criteria to emphasize it is only a guide, not the rule
- •Additional guidance on fine-tuning studies when incremental rise is around 3 feet

New: Guidance on how to address silt in reservoir

New: Establish a minimum value for IDF (e.g. 100 yr flood)

New: Criteria for fuseplugs

High and Significant Hazard Potential Dams PMF or IDF

Low Hazard Potential Dams
100 Year Flood

EMERGENCY ACTION PLAN PROGRAM

EMERGENCY ACTION PLANS

- EAPs Save Lives
- First Federal Agency to Promote EAP and Most-Developed Federal EAP Program
- Only Option When Unexpected Happens
- EAP Methodology Used World-Wide

FERC EAP PROGRAM

- EAPs Required For All Projects
- Exemptions Issued For Low Hazard Projects
- 99% of All FERC Projects Meet EAP

 Recognized as Leading Expert In EAP by FEMIA and the Dam Safety Community

VA TAC June 13, 2006 Meeting

FERC EAP GUIDELINES

• Revised February 22, 1988 (Amended September 9, 1988)

Require EAP Exercise Program

- Annual Drills

Periodic In Depth Testing - Also
 Known as Comprehensive Exercise

EAP EXERCISE PROGRAM

Initiated 1991

Essential Part of EAP Program

• 1 Test Per Owner Every 5 Years

Value Recognized