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Protecting People and the Environment

DRAFT NUREG-1924

The History of Electric Raceway Fire Barrier Systems
(ERFBS) Used to Protect Post-Fire, Safe-Shutdown
Functions in United States Nuclear Power Plants

2009 NEI Fire Protection Information Forum

Savannah, Georgia

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Regulatory Research**





Purpose

- Documents the completion and closure of ERFBS used in NPPs to protect post-fire safe-shutdown functions, including;
 - History
 - Regulations and guidance
 - Performance issues
 - Testing Standards
 - Regulatory compliance
 - Individual plant use



Barriers Evaluated

- Kaowool
- Thermo-Lag
- 3M Interam
- Hemyc
- Versawrap
- Pyrocrete
- Concrete
- FP-60
- Darmatt KM-1
- Mecatiss
- MT
- Promat
- Pabco



Report Contents

- Chapter 1-4 provide background information on
 - Browns Ferry Fire, Regulations, and Development of ERFBS testing criteria
- Chapter 5 evaluates individual ERFBS
 - Consolidates documentation regarding all know ERFBS including their;
 - Effectiveness
 - Parameters affecting performance
 - Fire endurance testing
 - NRC closure of open items
- Only publically available information



Chapter 6

- Plant Specific Usage and Resolution of ERFBS
 - Provides information on the use of ERFBS at each of the operating U.S. NPPs
 - Information collected from publically available docketed materials
 - Information is “to the best of our knowledge”
 - May not have all of the information



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To review your plant specific information
and provide comments during the public
comment period





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Public Comment Period

- 60-days
- Ends November XX, 2009
- See Federal Register XX FR XXXX



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Questions

