PWR Owners Group



PWROG Perspective on LBLOCA Rule Change (10 CFR 50.46a)

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PWR Owners Group LBLOCA Rule Change

Introduction

- PWROG supports a rule that meets the objectives stated in SECY 98-0300:
 - Enhance safety by focusing NRC and licensee resources in areas commensurate with their importance to health and safety.
 - Provide NRC with the framework to use risk information to take action in reactor regulatory matters.
 - Allow use of risk information to provide flexibility in plant operation and design, which can result in burden reduction without compromising safety
- The current draft rule does not fully meet these objectives

PWR Owners Group **KEY GAPS AND RECOMMENDATIONS**

	OBJECTIVE	GAP	RECOMMENDATION
•	Enhance safety by focusing NRC and licensee resources in areas commensurate with their importance to health and safety.	Imposes a change control program focuses resources on non-risk-significant changes	Use existing change control process, such as 10CFR50.59.
•	Provide NRC with the framework to use risk information to take action in reactor regulatory matters.	Rule is not written so that it can clearly be applied to GSI-191 with respect to debris generation and transport.	Clarify rule language or guidance that the reactor coolant system model may include debris generation and transport.
•	Allow use of risk information to provide flexibility in plant operation and design, which can result in burden reduction without compromising safety	 Rule has the potential to provide flexibility in operation and design. Change control program has potential to impose burden not commensurate with risk. 	Use existing change control process.

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Alternate Transition Break Size

For example, a frequency of 1 occurrence in 100,000 reactor years is an appropriate mean value for the LOCA frequency guideline for selecting the maximum design-basis LOCA since it is complemented by the requirement that appropriate mitigation capabilities, including effective severe accident mitigation strategies, must be retained for the beyond design-basis LOCA category. [SECY dated July 1, 2004]

- Transition Break Size (TBS) has a mean frequency smaller than the SECY direction.
- PWROG performed evaluation for members that supports smaller TBS
- Revise wording for TBS to allow licensee to propose TBS.

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New design basis is not commensurate with the risk

- Implementation for PWROG members will be burdensome and guidance is still largely undefined
 - At least 3 new analyses
 - New change control program
 - New monitoring programs
 - New restrictions
 - Others yet to be identified
- New programs require more focus on non-risk-significant issues
 - Defeats part of the purpose of the rule
- PWROG believes the rule can be simplified

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Recommended Next Steps

- Changes to the rule and/or implementation guidance:
 - Provision for licensee to propose the Transition Break Size
 - Clarification or simplification of analyses required for "beyond design basis"
 - Clarification of model definition to allow for debris generation and transport
- NRC and industry conduct transparent, public dialogue to define implementation requirements that are commensurate with risk from break larger than the TBS.