



Risk Informed Materials Assessment Project

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Risk Informed Materials Assessment Project (RIMA)

NRC staff seek to develop guidance on the use of Risk-Informed Decision Making (RIDM) in the materials engineering context.

Goal:

Regulatory guidance providing framework for submitting and reviewing applications with RIDM aspects while remaining (on the NRC side) maximally within the purview of DNRL materials engineering reviewers.

RIMA Challenge

NRC has observed increase in RIDM and RIDM-like applications. Diversity of approach both in applications and review require substantial resources.

Key NRC challenges:

- Existing NRC RIDM guidance focused on use of PRA
- RIDM guidance for passive component integrity not available
- Handling of uncertainties within RIDM approach lacks guidance

RIMA Ambitions

Staff seek to produce regulatory guidance based roughly on approach in RG 1.245, *Preparing Probabilistic Fracture Mechanics Submittals*.

Guidance would provide key aspects to include in high-quality submittals as well as the interaction between these key aspects as they may relate to NRC review decisions.



RIMA Status

Project officially initiated.

NRC staff are aligning internal resources and developing internal draft concepts.

Public participation in project is planned in future stages– we welcome your input and feedback!



QUESTIONS