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Methodology to Evaluate the Monetary Benefit of Probabilistic Risk Assessment by Modeling the Net Value of Risk-Informed Applications at Nuclear Power Plants

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Highlights

- A methodology to evaluate the monetary value of Probabilistic Risk Assessment (PRA).
- PRA net value is formulated via Risk-Informed Performance-Based Applications' value.
- The methodology combines causal modeling of RIPBAs with Cost-Benefit Analysis(CBA).
- Decision Tree models of causal scenarios for Risk-Managed Technical Specifications.
- Uncertainty analysis is conducted to generate probabilistic estimates of net values

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