Accepted Manuscript

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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PII: S0951-8320(18)30254-0
DOI: 10.1016/j.ress.2018.03.002
Reference: RESS 6084

To appear in: *Reliability Engineering and System Safety*

Received date: 17 March 2016
Revised date: 23 November 2017
Accepted date: 3 March 2018

Please cite this article as: Justin Pence , Marzieh Abolhelm , Zahra Mohaghegh , Seyed A. Reihani , Mehmet Ertem , Ernie Kee , Methodology to Evaluate the Monetary Benefit of Probabilistic Risk Assessment by Modeling the Net Value of Risk-Informed Applications at Nuclear Power Plants, *Reliability Engineering and System Safety* (2018), doi: 10.1016/j.ress.2018.03.002

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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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