Uranium Nitride Corrosion

Ember L. Sikorski[a]

[a]*Boise State University*

Abstract

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1. Introduction

- Call for accident tolerant fuel

2. Review

3. Discussion

Arkush and Liu report NO while Jolkonnen does not - environment? Combination of nitriding, adding dopants, intermetallics Nitriding reduces interactiong at room temperature, however at higher temperature higher stoichiometric UN decays to UN. Add intermetallics for ease of fabrication, nitride for room temp handling

Computational studies at odds with experiment: experiment changes starting conditions, comp changes type of study

4. Summary

[1]

References

CHANGE THE STYLE

[1] M. Jolkkonen, P. Malkki, K. Johnson, J. Wallenius, Uranium nitride fuels in superheated steam, Journal of Nuclear Science and Technology 54 (5) (2017) 513–519. doi:10.1080/00223131.2017.1291372.
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