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Autore	IAEA
Titolo	Prediction of Transverse Creep Based on Operating Conditions and Microstructure of Heavy Water Reactor Pressure Tubes
Pubbl/distr/stampa	Vienna : , : International Atomic Energy Agency, , 2022 ©2022
ISBN	9781523149827 1523149825 9789201236227 9201236220
Edizione	[1st ed.]
Descrizione fisica	1 online resource (188 pages)
Collana	IAEA TECDOC Series No ; ; v.2000
Disciplina	621.4808
Soggetti	Heavy water reactors Surfaces, Deformation of
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	Pressure tube deformation is an important aging issue in operating heavy water reactors (HWRs) and the R&D community continues to develop improved predictive models for in-reactor deformation. To progress research on this topic, a coordinated research project on prediction of axial and radial creep in pressure tubes was conducted to investigate predictive model biases when applied to different reactor units and to gain new insights into the effects of operating conditions as well as microstructure/manufacturing effects. This publication documents the work performed and the results obtained by six participating Member States' institutes, all with currently operating HWRs. The publication summarizes various modelling and predictive approaches considered for utilization within the nuclear industry in support of operating reactors. The findings offer some direction for incorporating the intrinsic material properties into the predictive models needed for pressure tube service life management.

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Pubbl/distr/stampa	[Place of publication not identified], : ASTM International, 2011
ISBN	1-62198-738-8 0-8031-8683-5
Collana	Journal of ASTM International selected technical papers Lead-free solders
Disciplina	621.9/77
Soggetti	Lead-free electronics manufacturing processes - Materials Solder and soldering Electrical & Computer Engineering Engineering & Applied Sciences Electrical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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