

1. Record Nr.	UNINA9910794416603321
Titolo	Coolant chemistry control and effects on fuel reliability in pressurized heavy water reactors : report of a technical meeting // IAEA
Pubbl/distr/stampa	Vienna, Austria : , : International Atomic Energy Agency, , [2021] ©2021
ISBN	92-0-133821-X 1-5231-4993-0 1-5231-4994-9 92-0-133921-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (128 pages)
Collana	IAEA TECDOC Series
Disciplina	621.48336
Soggetti	Pressurized water reactors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>The focus of this publication is on collecting current practices in Member States related to design extension conditions (DECs) with core melting. The information provided is based on the feedback from technical experts from Canada, France, Finland, India, the Islamic Republic of Iran, the Russian Federation, and the United States of America. There is, however, still no common understanding of DECs due to the complexity of phenomena and insufficient experimental data. This publication identifies current approaches of IAEA Member States with active nuclear power programmes and discusses the regulatory perspective and technical rationale. It attempts to find common practices and possible areas for harmonization of the main rules related to the analysis of DECs with core melting for new water cooled reactors, including their selection for the safety demonstration.</p>