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WESTINGHOUSE AP1000[®] GENERIC DESIGN ASSESSMENT

GDA ISSUE

TOLERABILITY OF DEPRESSURISATION FORCES IN A LARGE BREAK LOSS OF COOLANT ACCIDENT (LBLOCA)

GI-AP1000-FD-02 REVISION 0

Technical Area		FUEL DESIGN			
Related Technical Areas		Fault Studies			
GDA Issue Reference	GI-AP1000-FD-02		GDA Issue Action Reference	GI-AP1000-FD-02.A1	
GDA Issue	Demonstrate that pressure forces associated with the depressurisation of the primary circuit are sufficiently limited that a coolable geometry is maintained in the core.				
GDA Issue Action	Present arguments and analysis of the impact of depressurisation loads from large LOCA on the analysis of loss of coolable geometry.				
	ONR requires a suitable set of safety arguments and evidence to demonstrate that, in the event of a large LOCA, the reactor pressure vessel internals will not be damaged sufficiently for the assumptions of the safety case to be invalid. This needs to be documented in an assessment report and referenced from the safety report. Please note that an acceptable case for preclusion of the double-ended break has not been made, and in any event, the fault is still likely to be viewed as risk significant, so its consequences would need to be considered even if it were not deemed to be a Design Basis fault.				
With agreement from the Regulator this action may				be completed by alternative means.	

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