

WESTINGHOUSE AP1000® GENERIC DESIGN ASSESSMENT

GDA ISSUE

INTERNAL FLOODING SAFETY CASE

GI-AP1000-IH-02 REVISION 0

Technical Area		INTERNAL HAZARDS	
Related Technical Areas		None	
GDA Issue Reference	GI-AP1000-IH-02	GDA Issue Action Reference	GI-AP1000-IH-02.A1
GDA Issue	There is a need to provide an updated internal flooding safety case as there are inconsistencies associated with claims made on barriers, drains and sumps, and flood calculations.		
GDA Issue Action	<p>Provide an updated internal flooding safety case that considers the claims, arguments and evidence associated with internal flooding. As part of the production of the aforementioned case there is a need to consider the following aspects within the safety case:</p> <ul style="list-style-type: none"> • All potential unmitigated flood sources taking into account bounding flood sources and volumes. • The barriers claimed to provide segregation of safety significant SSCs in the event of internal flooding. • Any claims made on drainage systems, sumps, drains, flow paths etc and arguments and evidence provided to demonstrate that they will be available for postulated internal flooding events. • Any claims made on pressure relief panels and compartment vents need to be supported by arguments and evidence to demonstrate that they will be available for postulated internal flooding events. • Any ALARP claims made on operator actions in relation to the mitigation of potential flood events rather than assuming operator success as part of the deterministic case. <p>The list above should not be considered to be exhaustive and the items detailed above are provided as a means to inform Westinghouse of my expectations. Or alternative means agreed by the Regulator.</p>		