

## WESTINGHOUSE AP1000® GENERIC DESIGN ASSESSMENT

### GDA ISSUE

### LIMITS AND CONDITIONS

### GI-AP1000-CC-01 REVISION 0

<b>Technical Area</b>		<b>CROSS CUTTING</b>	
<b>Related Technical Areas</b>		All	
<b>GDA Issue Reference</b>	<b>GI-AP1000-CC-01</b>	<b>GDA Issue Action Reference</b>	<b>GI-AP1000-CC-01.A1</b>
<b>GDA Issue</b>	In respect of any operation that may affect safety, Westinghouse should have arrangements to identify and advise the future Licensee of the conditions and limits necessary in the interests of safety. These arrangements need to ensure that there is an appropriate link between the analysis documented in its safety case and the associated operational limits and conditions derived from the safety case, such that the Licensee can operate in accordance with the safety case.		
<b>GDA Issue Action</b>	<p>Westinghouse to demonstrate how the necessary safety-related limits and conditions during plant operations or maintenance are specified during the design stage. As part of this demonstration Westinghouse need to show that they have arrangements to establish an appropriate link between the analysis documented in its safety case and eventual operational limits and conditions it devises such that the Licensee will be able to operate in accordance with the safety case.</p> <p>ONR expect Westinghouse to:</p> <ul style="list-style-type: none"> <li>Describe a process for developing a complete set of Tech Specs and provide further information to demonstrate how plant Operating Rules (ORs) or Operating Technical Specifications (OTs), chemistry guidelines and maintenance schedules can be derived from the design basis limits and claims made in the GDA PCSR.</li> <li>Describe the processes that will be followed to ensure that the ORs, OTs and/or maintenance schedules ultimately adopted are consistent with the design basis limits.</li> <li>Describe how it is intended to capture, track and review significant safety assumptions derived from the safety case in particular those supporting PSA and fault studies which could effect siting, design, construction or operations.</li> <li>Undertake a targeted and proportionate (graded) approach in which the greatest attention and care is applied to the identification and implementation of conditions and limits with the greatest importance to safety. The safety case methodologies should therefore employ a hierarchical approach to deriving Limits and Conditions that are appropriate to the risks and hazards addressed.</li> </ul> <p>With agreement from the Regulator this action may be completed by alternative means.</p>		

# Office for Nuclear Regulation

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<b>Related Technical Areas</b>		All	
<b>GDA Issue Reference</b>	<b>GI-AP1000-CC-01</b>	<b>GDA Issue Action Reference</b>	<b>GI-AP1000-CC-01.A2</b>
<b>GDA Issue Action</b>	Westinghouse to provide evidence of the application of their arrangements for devising Limits and Conditions and how these may be subsequently converted into Operating Rules and other procedures which ensure the plant is capable of being operated safely within the design basis envelope defined by the GDA. As part of the evidence Westinghouse to provide: <ul style="list-style-type: none"><li>• A tabulated list of the key limits and conditions for those systems, structures and components (SSCs), including high integrity items, that provide the delivery of important safety functions for the UK AP 1000. Such limits and conditions may relate to temperature, pressure, primary coolant flow rate, chemistry, secondary water and steam conditions and so on.</li><li>• A list of the key Examination, Maintenance, Inspection and Testing (EMIT) requirements for the UK AP 1000 which are assumed within the safety case.</li></ul> The GDA AP1000 fault schedule could be used to identify the SSCs for each operating state. With agreement from the Regulator this action may be completed by alternative means.		

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<b>Related Technical Areas</b>	All		
<b>GDA Issue Reference</b>	<b>GI-AP1000-CC-01</b>	<b>GDA Issue Action Reference</b>	<b>GI-AP1000-CC-01.A3</b>
<b>GDA Issue Action</b>	Produce PCSR sub-chapter on Limits and Conditions as appropriate to capture the outcome of Actions 2 and 3 within this GDA Issue. With agreement from the Regulator this action may be completed by alternative means.		