

WESTINGHOUSE AP1000® GENERIC DESIGN ASSESSMENT

GDA ISSUE

STRUCTURAL INTEGRITY – REACTOR COOLANT PUMP

GI-AP1000-SI-03 REVISION 0

Technical Area		STRUCTURAL INTEGRITY	
Related Technical Areas		None	
GDA Issue Reference	GI-AP1000-SI-03	GDA Issue Action Reference	GI-AP1000-SI-03.A1
GDA Issue	Reactor Coolant Pump – Pump Bowl Integrity Case and Flywheel Disintegration Case.		
GDA Issue Action	<p>Supply a technical report addressing the structural integrity considerations related to a clad ferritic pump bowl casing, and support the assessment of the pump bowl integrity case.</p> <p>Activities by Westinghouse should comprise:</p> <ul style="list-style-type: none"> • Provide a report on the structural integrity considerations related to clad ferritic casing material which includes consideration of: <ul style="list-style-type: none"> ○ Pump casing design, ○ Material specification (Chemical composition and mechanical properties), ○ Forging manufacturing process, ○ Pump Casing fabrication, ○ Weld geometry, process and procedures for safe end weld to pipework and attachment weld for steam generator, ○ Clad process including process, specification and inspections. ○ ASME analyses of the design. • Provide adequate responses to any questions arising from the assessment by ONR of the pump bowl integrity case. <p>With agreement from the Regulator this action may be completed by alternative means.</p>		

Office for Nuclear Regulation

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Technical Area	STRUCTURAL INTEGRITY		
Related Technical Areas	None		
GDA Issue Reference	GI-AP1000-SI-03	GDA Issue Action Reference	GI-AP1000-SI-03.A2
GDA Issue Action	Support the ongoing assessment of the Flywheel Disintegration Case Activities by Westinghouse should comprise: <ul style="list-style-type: none">• Provide adequate responses to any questions arising from assessment by ONR of documents submitted. With agreement from the Regulator this action may be completed by alternative means.		