

## WESTINGHOUSE AP1000® GENERIC DESIGN ASSESSMENT

### GDA ISSUE

### PCSR TO SUPPORT GDA

### GI-AP1000-CC-02 REVISION 3

<b>Technical Area</b>		<b>CROSS CUTTING</b>	
<b>Related Technical Areas</b>		None	
<b>GDA Issue Reference</b>	<b>GI-AP1000-CC-02</b>	<b>GDA Issue Action Reference</b>	<b>GI-AP1000-CC-02.A1</b>
<b>GDA Issue</b>	<p>Westinghouse to submit a safety case to support the GDA Design Reference and then to control, maintain and develop the GDA submission documentation, including the SSER, the MSL and design reference document and deliver final consolidated versions of these as the key references to any DAC/SODA the ONR or the Environment Agency (the joint Regulators) may issue at the end of GDA.</p> <p>This GDA Issue is raised by both the ONR and Environment Agency</p>		
<b>GDA Issue Action</b>	<p>Westinghouse to submit to the joint Regulators a consolidated PCSR and associated references which provides the necessary claims, arguments and evidence to substantiate the adequacy of the AP1000 described by Design Reference Point (DRP) UKP-GW-GL-060 revision 2 and make available via the Westinghouse Website a public version of the consolidated PCSR, the Design Reference Document and the Master submission List.</p> <p>Westinghouse is required to carry out a review and reassessment of their PCSR. This review should cover:</p> <ul style="list-style-type: none"> <li>• PCSR UKP-GW-GL-793 Revision 0.</li> <li>• Weaknesses identified with the PCSR UKP-GW-GL-732 Revision 2.</li> <li>• Alignment of the DRP and MSL with the PCSR and associated references and ensure there is no adverse affect on impacted documents from the DCPs awaiting incorporation.</li> <li>• The application of UK safety classification for modifications.</li> <li>• Comments against the draft replacement PCSR UKP-GW-GL-793 Revision A.</li> <li>• Agreed responses TQs, ROs and RIs generated during GDA Steps 2, 3, and 4.</li> </ul> <p>Based on their review, Westinghouse should either confirm that their PCSR UKP-GW-GL-793 Revision 0 is the extant GDA safety case and is suitable and sufficient to substantiate the design defined in UKP-GW-GL-060 Revision 3 or submit a revised PCSR to the Regulators as necessary.</p> <p>Westinghouse is required to provide their safety case, Design Reference Document UKP-GW-GL-060 and the Master Submission List UKP-GW-GLX-001 and place subsequent updates on their website (removing commercial information, and security sensitive information)</p> <p>With agreement from the joint Regulators this action may be completed by alternative means.</p>		

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<b>Related Technical Areas</b>		None	
<b>GDA Issue Reference</b>	<b>GI-AP1000-CC-02</b>	<b>GDA Issue Action Reference</b>	<b>GI-AP1000-CC-02.A2</b>
<b>GDA Issue Action</b>	<p>Westinghouse is required to make and implement arrangements to control, maintain and develop the GDA safety submission documentation. This must include the SSER, MSL and design reference documents. As part of this action, Westinghouse shall deliver final consolidated versions of these documents as the key references to any DAC/SODA ONR or the Environment Agency (the joint Regulators) may issue at the end of GDA.</p> <p>This should involve the incorporation of all relevant amendments into the impacted documentation associated with design changes, including the Design Reference UKP-GW-GL-060 MSL and the PCSR. This should include any other additionally agreed design changes associated with other GDA issue Resolution Plans.</p> <p>Westinghouse arrangements shall ensure no modification to the design or safety case, which may affect safety, is made except in accordance with agreed arrangements and will provide for the classification of modifications according to their safety significance.</p> <p>Evidence the joint Regulators expect to see to address this action:</p> <ol style="list-style-type: none"> <li>1. Application of Westinghouse due processes, including QA and technical reviews for the control and development of the GDA submission documentation contained within the SSER, MSL and design reference document to address <ol style="list-style-type: none"> <li>1.1. GDA Issue resolution,</li> <li>1.2. Agreed design changes</li> <li>1.3. Any other updates agreed with the Regulators.</li> </ol> </li> <li>2. Application of Westinghouse due processes, including technical reviews, Independent Review and QA consolidation checks on final GDA submission documentation contained within the SSER, MSL and design reference document to be referenced from any DAC/SODA ONR or the Environment Agency may issue. The joint Regulators will require: <ol style="list-style-type: none"> <li>2.1. Evidence that review comments have been managed and incorporated in the final consolidated documentation as necessary.</li> </ol> </li> <li>3. Timely delivery of final consolidated GDA submission documentation including SSER, MSL and design reference document to be referenced from any DAC/SODA ONR may issue. Westinghouse will need to provide a public version of these documents made available via their website. To facilitate our assessments /inspections in this</li> </ol>		

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<b>Related Technical Areas</b>		None	
<b>GDA Issue Reference</b>	<b>GI-AP1000-CC-02</b>	<b>GDA Issue Action Reference</b>	<b>GI-AP1000-CC-02.A2</b>
	<p>area, in addition to the submission of the documentation the joint Regulators will require:</p> <p>3.1. the programme of deliverables of amended impacted design change documentation which will need to allow sufficient time for us to complete our assessments before ONR or Environmental Agency may issue any DAC/SODA.</p> <p>With agreement from the joint Regulators this action may be completed by alternative means.</p>		

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<b>Related Technical Areas</b>		None	
<b>GDA Issue Reference</b>	<b>GI-AP1000-CC-02</b>	<b>GDA Issue Action Reference</b>	<b>GI-AP1000-CC-02.A3</b>
<b>GDA Issue Action</b>	<p>Westinghouse to implement the outstanding GDA agreed design changes, by incorporating the change details into all impacted DR, the MSL documentation including the PCSR, ER.</p> <p>The scope of this work should include those design changes already agreed for inclusion in GDA Step 4 but not incorporated and any additional design changes arising as part of other GDA issues resolution plans or arising during the GDA close out stage.</p> <p>Evidence ONR or the Environment Agency (the joint Regulators) expect to see to address this action includes:</p> <ol style="list-style-type: none"> <li>1. A revised Design Reference Document that shows the DCPs agreed by the regulators for inclusion in GDA which were not fully incorporated at the DRP of 16 September 2010.</li> <li>2. A delivery schedule which;             <ol style="list-style-type: none"> <li>2.1. Identifies when those DCPs identified in item 1 above and any subsequent DCPs agreed by the regulators for inclusion in GDA will be incorporated into the impacted support documentation in the MSL and DR</li> <li>2.2. Identifies what design change details will be carried over into the site specific Phase, supported by a justification for this later delivery</li> </ol> </li> <li>3. Delivery of 2a part of the schedule and define the quality assurance arrangements to be applied for 2b.</li> </ol> <p>To facilitate our assessments in this area the programme of deliverables of impacted GDA submission documentation should be phased to allow for early assessment of the process performance.</p> <p>It is noted that some changes may not be incorporated into the GDA submission documentation until the site specific phase. This work needs to be clearly identified and agreed with the joint Regulators prior to the end of GDA.</p> <p>Westinghouse to review the Design Reference Point and update the Design Reference Document as necessary to reflect incorporation of the design changes, submit this to the regulators and place any update on their website (removing commercial information, and security sensitive information) prior to the final GDA SSER submission.</p> <p>With agreement from the joint Regulators this action may be completed by alternative means.</p>		