

EDF AND AREVA UK EPR GENERIC DESIGN ASSESSMENT
GDA ISSUE
PCSR PRESENTATION OF CLAIMS ARGUMENTS AND EVIDENCE
GI-UKEPR-EE-01 REVISION 1

Technical Area		ELECTRICAL ENGINEERING	
Related Technical Areas		None	
GDA Issue Reference	GI-UKEPR-EE-01	GDA Issue Action Reference	GI-UKEPR-EE-01.A1
GDA Issue	Provide a revised PCSR containing the requisite claims, arguments, and evidence to substantiate the design of the plant electrical distribution system. The claims made for the electrical system need to be related to the overall safety claims for the plant.		
GDA Issue Action	<p>Provide a revised PCSR Chapter 8 to substantiate the design of the complete plant electrical distribution system. This needs to incorporate a structure of claims, arguments and evidence in a narrative and/or tabular form to demonstrate that the electrical system fully meets the requirements of its safety role as specified in the other chapters of the PCSR.</p> <p>ONR's expectations are that the PCSR should provide a rigorous justification for the completeness of the electrical power distribution system to perform its safety role.</p> <p>It has been agreed with EDF and AREVA, from the early stages of this project, that this would be done in the PCSR by establishing the claims, arguments and evidence chain of reasoning. This requirement has been consistently presented to EDF and AREVA and comments have been made by ONR on presentations made by EDF and AREVA on the presentation of the safety case for the electrical distribution system.</p> <p>Within Step 4 EDF and AREVA have presented two example sections of the revised PCSR covering common cause failure and equipment qualification. These do not meet ONR expectations which are that:</p> <ul style="list-style-type: none"> • The PCSR needs to provide a clear justification of the safety of the EPR electrical distribution system. • The safety claims made need to be clear and unambiguous. • The arguments and evidence presented in support of the safety claims are well presented. In particular evidence should be based on documents that are produced during GDA, not on documents that are to be produced during site licensing. • Presentation of other sections of the PCSR will not be adequate if the format demonstrated in the example sections is maintained. <p>With agreement from the Regulator this action may be completed by alternative means.</p>		