Office for Nuclear Regulation

An agency of HSE

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EDF AND AREVA UK EPR GENERIC DESIGN ASSESSMENT

GDA ISSUE

CONSEQUENCES OF MISSILE GENERATION ARISING FROM FAILURE OF RCC-M COMPONENTS

GI-UKEPR-IH-04 REVISION 2

Technical Area	**INTERNAL HAZARDS**		
Related Technical Areas	Structural Integrity Civil Engineering Fault Studies		
GDA Issue Reference	**GI-UKEPR-IH-04**	**GDA Issue Action Reference**	**GI-UKEPR-IH-04.A1**
GDA Issue	Consequences of missile generation arising from failure of RCC-M Components.		
GDA Issue Action	Provide substantiation of the claims made within the PCSR associated with the preclusion of missile generation from failure of RCC-M components which are not designated as High Integrity Components (HIC) as defined in the consolidated PCSR. This could be undertaken through detailed analysis of the consequences of failure. The detailed analysis should include consideration of: • Identification of those potential sources of internal missile which could result in a threat to nuclear safety significant SSCs. • Analysis of the consequences of failure. • Passive features such as barriers and restraints. • Examination, maintenance, inspection, and testing as a potential part of a multi-legged safety justification for missiles. • Any further defence in depth and ALARP measures that could be implemented into the design. • Any identified design changes and their implementation within the PCSR. • The impact of the changes made to the PCSR relating to the outcome of this substantiation on other safety case submissions such as civil engineering and mechanical engineering. The list above should not be considered to be exhaustive and the items detailed above are provided as a means to inform EDF and AREVA of ONR expectations. With agreement from the Regulator this action may be completed by alternative means.		